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Result
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Listing first 45 summaries
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                                                                                                                                                                                                                                             Score
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Match
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Gapop 10.0 , Gapext 1.0
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8 15 100.0 15 17 US-10-075-994A-4 19 15 100.0 15 17 US-10-479-924-1 10 15 100.0 15 17 US-10-437-263-25 11 15 100.0 15 17 US-10-437-263-25 12 15 100.0 15 17 US-10-437-263-25 13 15 100.0 15 17 US-10-437-258-25 14 15 100.0 15 17 US-10-925-734-15 15 100.0 15 17 US-10-925-734-15 16 15 100.0 20 15 US-10-925-734-15 17 18 100.0 20 15 US-10-925-734-15 18 15 100.0 25 17 US-10-099-199-113549 19 15 100.0 25 21 US-10-099-199-113549 19 15 100.0 25 21 US-10-809-199-113549 20 15 100.0 25 21 US-10-809-199-113549 21 15 100.0 25 21 US-10-809-199-113550 22 15 100.0 478 10 US-09-728-446-1067 23 15 100.0 597 16 US-10-27-632-244006 24 15 100.0 673 13 US-10-027-632-244006 25 21 US-10-027-632-244007 26 15 100.0 673 13 US-10-027-632-244007 27 15 100.0 673 17 US-10-027-632-244007 28 15 100.0 673 17 US-10-027-632-244007 29 15 100.0 2977 10 US-10-40-341-2 29 15 100.0 2977 10 US-10-40-341-2 29 15 100.0 2977 10 US-09-963-131-159 29 29 29 29 29 29 29 29-99-347-20 29 29 29 29 29 29 29-99-347-20 29 29 29 29 29 29 29-99-347-20 29 29 29 29 29 29 29 29-99-341-30 29 29 29 29 29 29 29 29 29 29 29 29 29 2	equence 1139	US-10-809-189-11354		25	•	14	39	ი
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8 15 100.0 15 17 US-10-075-994A-4 19 15 100.0 15 17 US-10-479-24-1 10 15 100.0 15 17 US-10-437-284-1 11 15 100.0 15 17 US-10-437-283-25 11 15 100.0 15 17 US-10-437-283-25 11 15 100.0 15 17 US-10-437-283-25 12 15 100.0 15 17 US-10-37-288-25 13 15 100.0 15 21 US-10-925-734-15 14 15 100.0 20 14 US-10-957-550-49 15 17 US-10-057-550-49 16 15 100.0 25 17 US-10-075-994A-2 17 15 100.0 25 17 US-10-075-994A-2 18 15 100.0 25 17 US-10-091-113549 18 15 100.0 25 21 US-10-809-189-113550 19 15 100.0 25 21 US-10-809-189-113550 28 equence 29 15 100.0 597 16 US-09-918-995-4443 20 15 100.0 673 17 US-10-027-632-244006 21 15 100.0 673 17 US-10-027-632-244007 22 15 100.0 673 17 US-10-027-632-244007 23 15 100.0 673 17 US-10-027-632-244007 24 15 100.0 673 17 US-10-27-632-244007 25 21 US-10-437-935-1291 26 15 100.0 2977 16 US-10-437-935-36188 27 15 100.0 2977 19 US-09-963-347-207 28 15 100.0 2977 19 US-09-963-347-207 28 15 100.0 2977 14 US-10-379-138-1 29 15 100.0 2977 15 US-10-379-138-1 29 15 100.0 2977 15 US-10-379-138-1 29 15 100.0 2977 15 US-10-379-258-64 29 15 100.0 2977 15 US-10-379-258-64 29 15 100.0 2977 15 US-10-379-3336 29 29 29 29 29 29 29 29 29 29 29 29 29 2	equence 44,	US-10-926-543-4		3228	•	15	37	ი
8 15 100.0 15 17 US-10-075-994A-4 19 15 100.0 15 17 US-10-379-24-1 10 15 100.0 15 17 US-10-437-263-25 11 15 100.0 15 17 US-10-437-263-25 11 15 100.0 15 17 US-10-437-263-25 12 15 100.0 15 17 US-10-437-258-25 13 15 100.0 15 17 US-10-437-258-25 14 15 100.0 15 17 US-10-925-734-15 15 100.0 20 15 US-10-925-734-15 16 15 100.0 20 15 US-10-925-734-15 17 18 100.0 25 17 US-10-075-994A-2 18 15 100.0 25 17 US-10-075-994A-2 19 15 100.0 25 17 US-10-09-1195-113549 19 15 100.0 25 21 US-10-899-189-113550 25 21 US-10-27-632-244006 26 15 100.0 673 13 US-10-027-632-244006 27 15 100.0 673 13 US-10-027-632-244006 28 15 100.0 673 17 US-10-027-632-244007 29 15 100.0 673 17 US-10-027-632-244007 29 15 100.0 673 17 US-10-027-632-244007 29 15 100.0 2975 16 US-10-40-341-2 29 15 100.0 2977 10 US-10-40-341-2 29 15 100.0 2977 10 US-10-59-550-25 29 15 100.0 2977 10 US-09-963-131-159 29 29 29 29 29 29 29 29 29 29 29 29 29 2	equence 29,	US-10-936-273-2	2	2977	•	15	36	ი
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8 15 100.0 15 17 US-10-075-994A-4 9 15 100.0 15 17 US-10-379-924-1 10 15 100.0 15 17 US-10-437-263-25 11 15 100.0 15 17 US-10-437-263-25 11 15 100.0 15 17 US-10-437-253-25 11 15 100.0 15 17 US-10-437-275-25 12 15 100.0 15 17 US-10-437-275-25 13 15 100.0 15 17 US-10-37-258-47 14 15 100.0 20 14 US-10-925-734-15 15 100.0 20 14 US-10-925-734-15 16 15 100.0 25 17 US-10-075-994A-2 17 15 100.0 25 17 US-10-075-994A-2 18 17 18 100.0 25 17 US-10-099-199-113549 18 19 10 10 25 21 US-10-099-199-113549 19 15 100.0 25 21 US-10-099-199-113550 25 21 US-10-099-199-199-199-199-199-199-199-199-	equence 207,	US-09-969-347-2	-	2977	•	15	30	a
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8 15 100.0 15 17 US-10-075-994A-4 9 15 100.0 15 17 US-10-37-924-1 10 15 100.0 15 17 US-10-437-924-1 11 15 100.0 15 17 US-10-437-263-25 11 15 100.0 15 17 US-10-437-263-25 12 15 100.0 15 17 US-10-437-275-25 13 15 100.0 15 17 US-10-437-275-25 14 15 100.0 15 21 US-10-925-734-15 15 100.0 20 14 US-10-925-734-15 16 15 100.0 20 14 US-10-925-34-19 17 18 100.0 25 17 US-10-075-994A-2 18 17 18 100.0 25 17 US-10-075-994A-2 19 15 100.0 25 17 US-10-075-994A-2 20 15 100.0 25 21 US-10-075-994A-2 21 15 100.0 25 21 US-10-809-189-113550 22 15 100.0 165 9 US-09-728-446-1067 23 15 100.0 597 16 US-09-728-446-1067 24 15 100.0 673 13 US-10-027-632-244006 25 15 100.0 673 17 US-10-027-632-244007 26 15 100.0 673 17 US-10-027-632-244007 27 16 100.0 673 17 US-10-027-632-244007 28 equence 29 15 100.0 673 17 US-10-027-632-244007 20 15 100.0 673 17 US-10-027-632-244007 20 15 100.0 673 17 US-10-027-632-244007 21 15 100.0 673 17 US-10-027-632-244007 22 15 100.0 673 17 US-10-027-632-244007 23 15 100.0 673 17 US-10-027-632-244007 24 15 100.0 673 17 US-10-027-632-244007 25 15 100.0 673 17 US-10-027-632-244007	1291,	US-10-767-795-1		968	٠	15	27	
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8 15 100.0 15 17 US-10-075-994A-4 Sequence 10 15 100.0 15 17 US-10-479-94A-1 Sequence 11 15 100.0 15 17 US-10-479-25 Sequence 11 15 100.0 15 17 US-10-437-253-25 Sequence 12 15 100.0 15 17 US-10-437-255-25 Sequence 13 15 100.0 15 21 US-10-437-258-25 Sequence 14 15 100.0 20 14 US-10-057-550-49 Sequence 15 15 100.0 20 15 US-10-173-225B-47 Sequence 16 15 100.0 20 15 US-10-173-225B-47 Sequence 17 15 100.0 25 US-09-930-233A-2 Sequence 18 15 100.0 25 17 US-10-809-189-113549 Sequence 19 15 100.0 25 21 US-10-809-189-113550 Sequence 20 15 100.0 478 10 US-09-918-915-4443 Sequence 21 15 100.0 478 10 US-09-386-10679 Sequence 22 15 100.0 597 16 US-10-029-386-10799 Sequence	24400	US-10-027-632		673	•	15	23	ი
8 15 100.0 15 17 US-10-075-994A-4 9 15 100.0 15 17 US-10-347-994A-1 10 15 100.0 15 17 US-10-347-994A-1 10 15 100.0 15 17 US-10-347-994A-1 11 15 100.0 15 17 US-10-37-253-25 Sequence 11 15 100.0 15 17 US-10-437-275-25 Sequence 12 15 100.0 15 17 US-10-437-275-25 Sequence 13 15 100.0 15 21 US-10-373-258-25 Sequence 14 15 100.0 20 14 US-10-57-550-49 Sequence 15 15 100.0 20 15 US-10-173-2258-47 Sequence 16 15 100.0 25 17 US-10-809-189-113549 Sequence 17 15 100.0 25 21 US-10-809-189-113549 Sequence 18 15 100.0 25 21 US-10-809-189-113549 Sequence 19 15 100.0 25 21 US-10-809-189-113549 Sequence 20 15 100.0 165 9 US-09-78-446-1067 Sequence 21 15 100.0 478 10 US-09-918-955-4443 Sequence	10799	US-10-029-386-1079		9	٠	15	22	
8 15 100.0 15 17 US-10-075-994A-4 9 15 100.0 15 17 US-10-3794A-1 10 15 100.0 15 17 US-10-3794A-1 10 15 100.0 15 17 US-10-437-263-25 11 15 100.0 15 17 US-10-437-253-25 12 15 100.0 15 17 US-10-437-275-25 13 15 100.0 15 17 US-10-437-275-25 14 15 100.0 15 21 US-10-372-258-47 15 100.0 20 14 US-10-957-394-15 16 15 100.0 20 15 US-10-173-2258-47 17 18 100.0 20 US-10-173-2258-47 18 15 100.0 25 17 US-10-075-994A-2 19 15 100.0 25 21 US-10-809-189-113549 19 15 100.0 25 21 US-10-809-189-113559 19 15 100.0 25 21 US-10-809-189-113550 26 27 US-10-809-189-113550 27 US-10-809-189-113550 28 28 28 28 28 28 28 28 28 28 28 28 28 2	e 4443,	US-09-918-995-444		7	•	15	21	ი
8 15 100.0 15 17 US-10-075-994A-4 9 15 100.0 15 17 US-10-379-924-1 10 15 100.0 15 17 US-10-347-924-1 10 15 100.0 15 17 US-10-437-263-25 11 15 100.0 15 17 US-10-437-263-25 12 15 100.0 15 17 US-10-437-258-25 13 15 100.0 15 17 US-10-437-258-25 14 15 100.0 25 17 US-10-925-734-15 15 100.0 20 15 US-10-925-734-15 16 15 100.0 20 15 US-10-173-2258-47 17 15 100.0 25 17 US-10-173-2258-47 18 15 100.0 25 17 US-10-075-934A-2 19 15 100.0 25 21 US-10-099-189-113550 Sequence 19 15 100.0 25 21 US-10-099-189-113550 Sequence		US-09-728-446-1067		σ	•	15	20	ი
8 15 100.0 15 17 US-10-075-994A-4 Sequence 9 15 100.0 15 17 US-10-347-944-1 Sequence 10 15 100.0 15 17 US-10-347-263-25 Sequence 11 15 100.0 15 17 US-10-437-275-25 Sequence 12 15 100.0 15 17 US-10-437-258-25 Sequence 13 15 100.0 15 21 US-10-25-734-15 Sequence 14 15 100.0 20 14 US-10-925-734-15 Sequence 15 100.0 20 15 US-10-173-225B-47 Sequence 16 15 100.0 25 17 US-10-173-225B-47 Sequence 17 15 100.0 25 17 US-10-057-994A-2 Sequence 18 15 100.0 25 21 US-10-075-994A-2 Sequence 18 15 100.0 25 21 US-10-075-994A-2 Sequence	Sequence 113550	US-10-809-189-11355		2		15	19	<u>α</u> (
15 100.0 15 17 US-10-075-994A-4 Sequence 15 100.0 15 17 US-10-37-924-1 Sequence 15 100.0 15 17 US-10-437-263-25 Sequence 15 100.0 15 17 US-10-437-275-25 Sequence 15 100.0 15 17 US-10-437-275-25 Sequence 15 100.0 15 21 US-10-925-734-15 Sequence 15 100.0 20 14 US-10-925-734-15 Sequence 15 100.0 20 15 US-10-173-225B-47 Sequence 15 100.0 25 9 US-09-930-283A-2 Sequence 15 100.0 25 17 US-10-075-994A-2 Sequence	Sequence 113545	US-10-809-189-11354		2		15	18	n
15 100.0 15 17 US-10-377-994A-4 Sequence 15 100.0 15 17 US-10-347-924-1 Sequence 15 100.0 15 17 US-10-347-263-25 Sequence 15 100.0 15 17 US-10-437-275-25 Sequence 15 100.0 15 17 US-10-437-275-25 Sequence 15 100.0 15 17 US-10-925-734-15 Sequence 15 100.0 15 21 US-10-925-734-15 Sequence 15 100.0 20 14 US-10-057-550-49 Sequence 15 100.0 25 9 US-10-173-2258-47 Sequence 15 100.0 25 9 US-10-930-283A-2 Sequence	O	US-10-075-994A-		N I		15	17	
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15 100.0 15 17 US-10-075-994A-4 Sequence 15 100.0 15 17 US-10-37-924-1 Sequence 15 100.0 15 17 US-10-437-263-25 Sequence 15 100.0 15 17 US-10-437-275-25 Sequence 15 100.0 15 17 US-10-437-275-25 Sequence 15 100.0 15 21 US-10-925-734-15 Sequence 15 100.0 20 14 US-10-057-550-49 Sequence	Sequence 47, Ap	US-10-173-225B-4	_	20	•	15	15	
15 100.0 15 17 US-10-075-994A-4 Sequence 15 100.0 15 17 US-10-347-924-1 Sequence 15 100.0 15 17 US-10-437-263-25 Sequence 15 100.0 15 17 US-10-437-275-25 Sequence 15 100.0 15 17 US-10-437-258-25 Sequence 15 100.0 15 17 US-10-437-258-25 Sequence 15 100.0 15 21 US-10-925-734-15 Sequence	Sequence 49, Ap	US-10-057-550-4	_	20	•	15	14	
15 100.0 15 17 US-10-075-994A-4 Sequence 15 100.0 15 17 US-10-347-924-1 Sequence 15 100.0 15 17 US-10-437-253-25 Sequence 15 100.0 15 17 US-10-437-275-25 Sequence 15 100.0 15 17 US-10-437-258-25 Sequence	equence	US-10-925-734-1	-	15	•	15	13	
15 100.0 15 17 US-10-075-994A-4 Sequence 4, 15 100.0 15 17 US-10-347-924-1 Sequence 1, 15 100.0 15 17 US-10-437-263-25 Sequence 25, 15 100.0 15 17 US-10-437-275-25 Sequence 25, 15 100.0 15 17 US-10-437-275-25	equence	US-10-437-258-2	-	15	•	15	12	
15 100.0 15 17 US-10-075-994A-4 Sequence 4, 15 100.0 15 17 US-10-347-924-1 Sequence 1, 15 100.0 15 17 US-10-437-263-25 Sequence 25,	equence 25,	US-10-437-275-2		11	٠	15	11	
15 100.0 15 17 US-10-075-994Å-4 Sequence 4, 15 100.0 15 17 US-10-347-924-1 Sequence 1,	equence 25,	US-10-437-263-2	-	15	٠	15	10	
15 100.0 15 17 US-10-075-994A-4 Sequence 4,	equence 1.	US-10-347-924-	-	LI UI	٠	15	9	
	equence 4,	US-10-075-994A-		15	٠	15	œ	

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US-09-930-283A-1
US-09-930-283A
; Sequence 1, Application US/09930283A
; Patent No. US20020160038A1
; Patent No. Dates Containg Oligonucelotides NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS: Hendricks and Assoc.
STREET: P.O. Box 2509
CITY: Fairfax
STATE: VA
COUNTRY: US
ZIP: 22031
; COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
; CORRENT APPLICATION NUMBER: US/09/930,283A
FILING DATE: 16-Aug-2001
; PATENT APPLICATION NUMBER: US/09/930,283A
FILING DATE: 1999-07-15
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NAME: Hendricks, Glenna REGISTRATION NUMBER: 32,535 REFERENCE, DOCKET NUMBER: kasid TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 591-4470

ATTORNEY/AGENT INFORMATION:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                               NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: kasid
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 591-4470
TELEPHONE: (703) 591-4428
INFORMATION FOR SEQ ID NO: 3:
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INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:

APPLICATION NUMBER: U$/09/930,283A
FILING DATE: 16-Aug-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/354,109
FILING DATE: 199-07-15
ATTORNEY/ACENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 22031
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gokhale, Prafulla
Dritschilo, Anatoly
Rahman, Aqulur
TITLE OF INVENTION: Liposomes containg Oligonucelotides
NUMBER OF SEQUENCES: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: unknown MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: NO ANTI-SENSE: YES
                MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
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HYPOTHETICAL: NO
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Similarity 100.0%;
15; Conservative 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE: VA
COUNTRY: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Hendricks and Assoc. STREET: P.O. Box 2509 CITY: Fairfax
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
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Pred. No.
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RESULT 4 US-10-290-545-25

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; ANTI-SENSE: YES ; SEQUENCE DESCRIPTION: SEQ ID NO: US-09-930-283A-3
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                                                                                                                                                 ; SEQUENCE DESCRIPTION: SEQ ID NO: 15: US-09-895-480A-15
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                                                                         Matches
                                                                                           Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: Inex Pharmaceuticals Inc.
TITLE OF INVENTION: High Efficiency Encapsulation of Charged Therapeutic
                                                                                                                                                                                                                                                                                                                        TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/09/895,480A FILING DATE: 29-Jun-2001 CLASSIFICATION: «Unknown» PRIOR APPLICATION DATA:
                                                                                                                                                                                                         TOPOLOGY: linear MOLECULE TYPE: other nucleic acid HYPOTHETICAL: no
                                                                                                                                                                                                                                                                                                                                                                                                    REGISTRATION NUMBER: «Unknown»
REFERENCE/DOCKET NUMBER: «Unknown»
TELECOMMUNICATION INFORMATION:
TELEPHONE: «Unknown»
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: «Unknown»
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: «Unknown»
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Word Perfect CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS 5.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 17 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                       ANTI-SENSE: yes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15 GIGCICCATIGATGC 1
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                                   1 GIGCICCATIGATEC 15
                                                                                           Similarity
GTGCTCCATTGATGC 15
                                                                                                                                                                                                                                                            STRANDEDNESS: single
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ZIP: 80435
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STATE: CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Oppedahl & Larson LLP
STREET: PO Box 5068
                                                                                                                                                                                                                                                                                  TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: <Unknown>
                                                                                                                                                                                                                                                                                                      LENGTH: 15
                                                                         Conservative
                                                                                         100.0%;
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                                                                                           Score 15; DB 10;
Pred. No. 1.3e+02;
                                                                           Mismatches
                                                                                                             DB 10; Length 15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-290-545-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/10/365,623
CURRENT FILING DATE: 2003-02-13
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn version 3.1
SEQ ID NO 16
LENGTH: 15
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Klimuk, Sandy
APPLICANT: Yuan, Zuan-Ning
TITLE OF INVENTION: Improved Mucosal Vaccines and Methods for Using the Same
FILE REFERENCE: A-71854/TAL/AXG
CURRENT APPLICATION NUMBER: US/10/290,545
CURRENT FILING DATE: 2002-11-07
NUMBER OF SEQ ID NOS: 30
SOFTWARE: Patentin version 3.1
SEQ ID NO 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 16, Application US/10365623 Publication No. US20030166512A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                             Sequence 1, Application US/10075994A Publication No. US20030215489A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
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Publication No. US20030125292A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Xie, Dong
TITLE OF INVENTION: Protein (
FILE REFERENCE: 63024,000001
CURRENT APPLICATION NUMBER: US/10/075,994A
CURRENT FILING DATE: 2002-02-15
                                                    APPLICANT: DRITSCHILO, Anatoly
APPLICANT: RAHMAN, Aquilur
TITLE OF INVENTION: CHEMOSENSITIZING WITH LIPOSOMES CONTAINING OLIGONUCLEOTIDES
                                                                                                                         APPLICANT:
                                                                                                                                                                                  APPLICANT: KASID, Usha
APPLICANT: GOKHALE, Prafulla
                                       FILE REFERENCE: 219604
                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Semple, Sean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          y Match 100.0%; Score 15; DB 15; Local Similarity 100.0%; Pred. No. 1.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                           1 GTGCTCCATTGATGC 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity 100.0%;
15; Conservative
                                                                                                                 PIE, Jin
MEWANI, Rajshree
AHMAD, Imran
                                                                                                                                                                                                                                                                                                                                                                     GTGCTCCATTGATGC 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Protein Carrier System for Therapeutic Oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 15; 100.0%; Pred. No.
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; OTHER INFORMATION: Synthetic US-10-075-994A-3
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Best Local Similarity
Whee 15; Conserve
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CURRENT APPLICATION NUMBER: US/10/075,994A
CURRENT FILING DATE: 2002-02-15
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.2
SEQ ID NO 4
                                                                                                                                                                                                                           Sequence 4, Application US/10075994A Publication No. US20030215489A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOPTWARE: PatentIn version 3.2
SEQ ID NO 3
LENGTH: 15
TYPE: DNA
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APPLICANT:
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CURRENT FILING DATE: 2002-02-15
NUMBER OF SEQ ID NOS: 7
                                                                                 FILE REFERENCE: 219604
                                                                                              APPLICANT: DRITSCHILO, Anatoly
APPLICANT: RAHMAN, Aquilur
TITLE OF INVENTION: CHEMOSENSITIZING WITH LIPOSOMES CONTAINING OLIGONUCLEOTIDES
                                                                                                                                                                                              APPLICANT: KASID, APPLICANT: GOKHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
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APPLICANT: GOKHALE, Prafulla
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SOFTWARE: PatentIn version 3.2
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TITLE OF INVENTION: CHEMOSENSITIZING WITH LIPOSOMES CONTAINING OLIGONUCLEOTIDES
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15; Conserv
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AHMAD, Imran
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AHMAD, Imran
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ilarity 100.0%;
Conservative (
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; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; EBATURE;
; OTHER INFORMATION: Synthetic
US-10-075-994A-4
           APPLICANT: Tam, Ying K.
APPLICANT: Chikh, Ghania
APPLICANT: Hope, Michael J.
TITLE OF INVENTION: PATHOGEN VACCINES AND METHODS FOR FILE REFERENCE: A-72216/TAL
CURRENT APPLICATION NUMBER: US/10/437,263
CURRENT FILING DATE: 2003-05-12
PRIOR APPLICATION NUMBER: 60/379,343
PRIOR APPLICATION NUMBER: 60/379,343
PRIOR APPLICATION NUMBER: 60/460,646
PRIOR FILING DATE: 2002-05-10
PRIOR FILING DATE: 2003-04-04
PRIOR FILING DATE: 2003-04-04
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; Sequence 25, Application US/10437263
; Publication No. US20040009943A1
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CURRENT APPLICATION NUMBER: US/10/347,924

CURRENT FILING DATE: 2003-01-21

PRIOR APPLICATION NUMBER: US 09/354,109

PRIOR FILING DATE: 1999-07-15

PRIOR APPLICATION NUMBER: US 08/957,327

PRIOR FILING DATE: 1997-10-24

PRIOR APPLICATION NUMBER: US 60/041,192

PRIOR FILING DATE: 1997-03-21

NUMBER OF SEQ ID NOS: 1
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Publication No. US20030229040A1
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Best Local Similarity
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APPLICANT: Gokhale, Praful
APPLICANT: Zhang, Chuanbo
PRIOR APPLICATION NUMBER: 60/454,298
                                                                                                                                                                                                                                   APPLICANT: Semple, APPLICANT: Tam, Y:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Dristschilo, Amatoly
APPLICANT: Rahman, Aquilur
TITLE OF INVENTION: CATIONIC LIPOSOMAL DELIVERY SYSTEM AND THERAPEUTIC USE THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
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100.0%; Pred. No. 1.3e+02;
tive 0; Mismatches 0;
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hes 0;
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FSEQUENCE 25, Application US/10437258

Publication No. US20040013649A1

GENERAL INFORMATION:

APPLICANT: Tam, Ying K.

APPLICANT: Semple, Sean

APPLICANT: Simple, Sean

APPLICANT: Klimuk, Sandra

APPLICANT: Klimuk, Sandra

CURRENT FILING DATE: 2003-05-12

PRIOR APPLICATION NUMBER: 60/46,646

PRIOR APPLICATION NUMBER: 60/46,646

PRIOR APPLICATION NUMBER: 60/4644,298

PRIOR APPLICATION NUMBER: 60/454,298
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US-10-437-263-25
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US-10-437-275-25
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CURRENT FILING DATE: 2003-05-12
PRIOR APPLICATION NUMBER: 60/379,343
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: 60/460,646
PRIOR APPLICATION NUMBER: 60/460,646
PRIOR FILING DATE: 2003-04-04
PRIOR APPLICATION NUMBER: 10/290,545
PRIOR APPLICATION NUMBER: 10/290,545
PRIOR FILING DATE: 2002-11-07
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NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn version 3.2
SEQ ID NO 25
LENGTH: 15
TYPE: DNA
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 25
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Best Local Similarity
Matches 15; Conserv
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Best Local Similarity
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APPLICANT: Semple, Sean
APPLICANT: Simple, Sean
APPLICANT: Klimuk, Sandra
APPLICANT: Chikh, Ghania
TITLE OF INVENTION: METHYLATED IMMUNOSTIMULATORY OLIGONUCLEOTIDES
TITLE OF INVENTION: USING THE SAME
FILE REFERENCE: A-72158/TAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
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100.0%; Pred. No. 1.3e+02;
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US-10-925-734-15
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; ORGANISM: Homo sapiens
US-10-437-258-25
                                                                                                                                                                                                              US-10-925-734-15
                                                                      Matches
                                                                                                   Query Match
Best Local Similarity
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LENGTH: 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 2003-03-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Inex Pharmaceuticals Inc.
TITLE OF INVENTION: High Efficiency Encapsulation of Charged
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:

ZII: 80415
ZII: 804
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: <Unknown>
REFERENCE/DOCKET NUMBER: <Unknown>
TELECOMMUNICATION INFORMATION:
TELEPHONE: <Unknown>
                                                                                                                                                                                                                                    HYPOTHETICAL: no
ANTI-SENSE: yes
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear MOLECULE TYPE: other nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
                                                                  15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15;
1 GTGCTCCATTGATGC 15
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                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Dillon
STATE: CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Oppedahl & Larson LLP
STREET: PO Box 5068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: <Unknown>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: <Unknown>
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Pred. No. 1.3e+02;
                                                                                               Score 15; DB 21;
Pred. No. 1.3e+02;
                                                                  Mismatches
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                                                                                                                                Length 15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/10/057,550
CURRENT FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: 09/506,073
PRIOR FILING DATE: 2000-02-18
PRIOR PILING DATE: 1998-08-28
PRIOR PILING DATE: 1998-08-28
PRIOR PILING DATE: 1998-08-28
PRIOR PILING DATE: 1998-08-28
PRIOR PILING DATE: 1998-07-06
PRIOR PILING DATE: 1998-07-07
PRIOR PILING DATE: 1997-07-07
PRIOR PILING DATE: 1997-07-07
PRIOR PILING DATE: 1997-07-07
PRIOR PILING DATE: 1995-05-31
PRIOR PILING DATE: 1995-05-31
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NUMBER OF SEQ ID NOS: 109
SEQ ID NO 47
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 47, Application US/10173225B Publication No. US20030119769A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 49
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 49, Application US/10057550 Publication No. US20030032607A1
                                                                                                                                                                                                                                                               TITLE OF INVENTION: Antisense Oligonucleotide Modulation FILE REFERENCE: ISPH-0665 CURRENT APPLICATION NUMBER: US/10/173,225B CURRENT FILING DATE: 2002-12-06 PRIOR APPLICATION NUMBER: US 10/057,550 PRIOR FILING DATE: 2002-01-25 PRIOR FILING DATE: 2002-01-25 PRIOR APPLICATION NUMBER: US 09/143,214 PRIOR APPLICATION NUMBER: US 09/143,214 PRIOR FILING DATE: 1998-08-28 PRIOR APPLICATION NUMBER: DCT/US98/13961 PRIOR APPLICATION NUMBER: DCT/US98/13961 PRIOR PRIOR DATE: 1998-07-06
                                                                     PRIOR FILING DATE: 1995-05-31
PRIOR APPLICATION NUMBER: US 08/250,856
PRIOR FILING DATE: 1994-05-31
                                                                                                                                           PRIOR APPLICATION NUMBER: US 08/888,982
PRIOR FILING DATE: 1997-07-07
PRIOR APPLICATION NUMBER: US 08/756,806
PRIOR FILING DATE: 1996-11-26
PRIOR APPLICATION NUMBER: PCT/US95/07111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 08/250,856 PRIOR FILING DATE: 1994-05-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Antisense Oligonucleotide Modulation of raf Gene Expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           տ
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Pred. No. 1.3e+02;
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Post-processing: Minimum Match 0%
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Listing first 45 summaries
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Maximum DB
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Perfect score:
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1: geneseqn1980s:*
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3: geneseqn2000s:*
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15
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Copyright (c) 1993 - 2005 Compugen Ltd.
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207.953 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Result

Result No.	Score	% Query Match	% Query Match Length	BB	ID	Description
1	15	100.0	15	2	AAV54043	Aav54043 Human ant
N	15	100.0	15	N	AAV99435	Antis
ω	15	100.0	15	w	AAZ98661	Aaz98661 Human c-r
4	15	100.0	15	თ	AAD22797	Aad22797 Human c-r
ហ	15	100.0	15	ø	ACC58517	Acc58517 Oligonucl
6	15	100.0	15	9	ADA24233	Ada24233 Human c-r
c 7	15	100.0	15	10	ADB97458	Adb97458 Sense (AT
œ	15	100.0	15	10	ADB97456	Adb97456 Antisense
9	15	100.0	15	10	ADF82830	Adf82830 Immunosti
10	15	100.0	15	12	ADE90171	Ade90171 Human c-r
11	15	100.0	15	12	ADE39690	Ade39690 Oligonucl
12	. 15	100.0	15	12	ADF32025	Adf32025 Antisense
13	15	100.0	15	12	ADF42926	Adf42926 Methylate
14	15	100.0	15	12	ADL70154	Adl70154 Oligonucl
15	15	100.0	15	13	ADR88950	Adr88950 Anti c-ra
16	15	100.0	20	N	AAT27527	Aat27527 Mouse/rat
17	15	100.0	20	N	AAZ11557	Aaz11557 Mouse and
18	15	100.0	20	w	AAA73535	Aaa73535 Mouse and
19	15	100.0	20	9	AAD44760	Aad44760 Mouse and
20	15	100.0	20	10	ADF09751	Adf09751 Mouse/rat

New cationic liposome composition containing raf oligodeoxynucleotide can be used to directly target tumour tissue and is useful in the radiation therapy of cancers.

WPI; 1998-532155/45.

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80.0	80.0	80.0	80.0	80.0	80.0	80.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	100.0	100.0
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AAD44716	AAA73491	AAA92026	AAA92027	AAZ11513	AAT86617	AAT27483	AAV93971	ABI85033	ABI85032	ABI94231	AAV23613	AAX16583	AAX16555	ACD42073	ADF09706	AAD44715	AAA73490	AAZ11512	AAT62145	AAT59716	AAT27482	AAV90935	ADB97457	ACD42120
Aad44716 Human c-r	Aaa73491 Human c-r	Aaa92026 C-raf tar	Aaa92027 C-raf tar	Aazl1513 Human c-r	Aat86617 Rat c-raf	Aat27483 Human c-r	Aav93971 Human IL-	Abi85033 Capture o	Abi85032 Capture o	Abi94231 Capture o	Aav23613 Homo sapi	Aax16583 Position	Aax16555 Position	Acd42073 Antisense	Adf09706 Human c-r	Aad44715 Human c-r	Aaa73490 Human c-r	Aaz11512 Human c-r	Aat62145 Human c-r	Aat59716 Human raf	Aat27482 Human c-r	Aav90935 Human C-r	Adb97457 Oligo use	Acd42120 Antisense

ALIGNMENTS

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RESULT 1
AAV54043
21-MAR-1997;
24-OCT-1997;
                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                    Human; antisense; c-raf-1; oligodeoxyribonucleotide; ODN/oligo; tumour tissue; cancer; radiation therapy; radiosensitise; antisense;
                                                                                                                                                                                                                                                                             Human antisense c-raf-1 oligodeoxyribonucleotide.
                                                                                                                                                                                                                                                                                                                            AAV54043 standard; DNA; 15
                                                      Kasid U,
                                                                                                            19-MAR-1998;
                                                                                                                             01-OCT-1998.
                                                                                                                                            WO9843095-A1
                                                                                                                                                                                                    modified_base
                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                             02-DEC-1998 (first entry)
                                                                                                                                                                                                                                                                                                              AAV54043;
                                                                                                                                                                                                                                             liposome carrier system; ss.
                                                                     (GEOU ) UNIV GEORGETOWN.
                                                     Gokhale P,
                                                                                     97US-0041192P.
97US-00957327.
                                                                                                              98WO-US005303.
                                                                                                                                                            /*tag=
/note=
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                                                                                                                                                                              /*tag= a
/note= "N-terminal base is phosphothioated"
15
                                                      Dritschilo A,
                                                                                                                                                       b
"C-terminal base is phosphothioated"
                                                                                                                                                                                                                                                                                                                             BP.
                                                       Rahman A;
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x s s s s s s s s x x

Claim

4

Page 21;

25pp;

English

This is the nucleotide sequence of the human antisense c-raf-1 oligodeoxyribonucleotide (ODM/oligo), used in the method of the invention to directly target tumour tissue, and in cancer radiation therapy. The products can be used in a method of radiosensitising tumour tissue by addition of an antisense oligonucleotide of maximum 40 bases containing ODM/oligo. The liposome carrier system directly targets tumour tissue and has the potential for use in the radiation therapy of cancers

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GTGCTCCATTGATGC GTGCTCCATTGATGC

15 15

AAV99435;

22-MAR-1999

(first

entry.

AAV99435 standard;

DNA;

15

ВP

Query Match Best Local S Matches 15

Similarity

100.0%;

Score 15; Pred. No.

1.le+02;

DB 2;

Length 15 Indels

15; μ

Conservative

0

Mismatches

0

Gaps

0

Sequence 15

BP; 2 A; 4 C; 4 G; 5 T; 0 U;

0 Other;

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RESULT 2
ANU99435
ID ANU9
ID ANU9
AXX ANU9
AXX ANU9
AXX ANTI
AXX A
                 The present sequence represents an antisense oligonucleotide directed against the human c-raf-1 protein kinase gene. The oligonucleotide can have either phosphorothioate or phosphodiester bonds. The oligonucleotide is lipid-encapsulated using the method of the invention. A composition comprising lipid-encapsulated particles of a therapeutic agent, e.g. antisense oligonucleotides, is prepared by mixing at least 2 lipids with buffered aqueous solution of charged therapeutic agent to form an intermediate mixture of lipid-encapsulated particles, and changing the pH of the mixture to neutralise at least some of the external surface
                                                                                                                                                                                                                                                                                                                                                                                                                          Composition containing lipid-encapsulated therapeutic agent - use e.g. for delivering antisense molecules or ribozymes or treating associated with aberrant gene expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Semple SC,
Scherrer P,
                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 23; 98pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-045179/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-NOV-1998.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9851278-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (INEX-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Klimuk SK,
Debeyer D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PHARM CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97US-00856374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98WO-CA000485
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             or phosphodiester bonds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ansell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cullis
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This sequence represents an antisense oligonucleotide human c-raf-l protein kinase as its target gene. The c

e sequence which oligonucleotide

hae is

Example 5; Page 57; 99pp; English

capsules comprising

for delivering

ring antisense oligonucleotides steric barrier lipids.

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cells

using lipid

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RESULT 3
ANZ98661
ID ANZ9
XX ANZ9
XX ANZ9
XX ANTI
DE Huma
XX Anti
KW Lumc
KW Infe
OS HOMC
XX HOMC
XX HOMC
XX INFE
PT Misc
FT
PN CA2;
XX INFE
PR 14-1
XX INFE
PR 14-1
XX INFE
PR 14-1
XX INFE
PR (KU.:
PA 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  និនិនិនិនិនិនិនិនិនិនិ
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             charges on the particles. One lipid has a (de)protonatable group with Ka such that the lipid is charged at a first pH but neutral at a second pH (particularly near physiological pH) and the buffer maintains this lipid in the charged form (i.e. cationic when the therapeutic agent is anionic in the buffer, or vice versa). The second lipid prevents particle aggregation during formation of the lipid-therapeutic agent particles. The composition is used to introduce therapeutic agent into cells, in vivo or in vitro, particularly to treat or prevent diseases associated with aberrant gene expression in mammals, specifically tumours,
                                                                                                                                                                                                WPI; 2000-225058/20.
                                                                                                                                                                                                                                                 Klimuk SK,
Scherrer P,
                                                                                                                                                                                                                                                                                                                                                                    (ANSE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CA2271582-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense oligonucleotide; phosphorothioate; inflammatory disease; tumour; gene therapy; aberrant gene expression; treatment; infectious disease; protein kinase C alpha; c-raf-1 protein kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ98661 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ98661;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   inflammation or infection
                                                                                                                                                                                                                                                                                                                                                                                                                                              (HOPE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (KLIM/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             c-raf-1
                                                                                                                                                                                                                                                                                                                   HOPE M J.
ANSELL S M.
CULLIS P R.
MOK W W K.
SCHERRER P.
SEMPLE S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \vdash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 GTGCTCCATTGATGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HARASYM T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GIGCICCATIGATEC 15
                                                                                                                                                                                                                                              Harasym
Semple
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-00078955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99CA-02271582
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note= "Optionally phosphorothicate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linkages"
                                                                                                                                                                                                                                                 SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
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                                                                                                                                                                                                                                                                        Hope
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                        Ansell
                                                                                                                                                                                                                                                                        MS,
                                                                                                                                                                                                                                                                          Cullis PR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       internucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein kinase;
                                                                                                                                                                                                                                                                             NO.
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Antisense oligonucleotide; human c-raf-1 protein kinase phosphorothioate; phosphodiester; lipid-encapsulation; t

gene;

gene

expression; treatment; inflammation; infection; ss.

aberrant gene

Antisense oligonucleotide directed against c-raf-1 protein kinase

SSSSSSSSSSSSSS

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RESULT 4
AAD22797
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
The invention relates to a composition useful for treatment of e.g. tumours. The composition comprises lipid-therapeutic agent particles comprising a lipid portion and a charged therapeutic agent which is encapsulated in the lipid portion. The lipid portion comprises a first lipid component selected from lipids containing a protonatable or deprotonatable (preferably protonatable) group that has a pKa such that the lipid is in charged form at a first pH and in neutral form at a
                                                                                                                                                                                                                                                                Composition useful for treatment comprising lipid portion and a ch
                                                                                                                                                                                                                                                                                                                                                                                                Semple SC,
Scherrer P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         used in a method for delivering lipid encapsulated therapeutic agents (i.e antisense oligonucleotides) to mammals. The lipid capsule comprises steric barrier lipids that prevent particle aggregation during lipid nucleic acid formation. The method may be used for the delivery of therapeutic agents to mammalian cells. It is especially suitable for delivering nucleic acid molecules, and in particular antisense molecules which may be administered to down regulate the expression of aberrant genes. The aberrant gene may be ICAM-1, c-myc, c-myb, ras, raf, erb-B-2, PKC-alpha, IGF-IR, EGFR, VEGF and/or VEG-R-1. The method may be used for
                                                                                                                                                                                                                  Disclosure; Col 15-16;
                                                                                                                                                                                                                                                                                                                                               WPI; 2002-024658/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    distearcylphosphatidylcholine; palmitcylolecyl phophatidylcholine; DSPC; POPC; 1,2-diolecyl-sn-3-phosphoethanolamine; cholesterol; SM; DOPE; inflammation; c-raf-1 protein kinase gene; human; infectious disease; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-SEP-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US6287591-B1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (INEX-) INEX PHARM CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human c-raf-1 protein kinase antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAD22797;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAD22797 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Treatment; tumour; lipid-therapeutic agent particle; sphingomyelin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         treatment of tumours, inflammatory diseases and/or infectious
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     μ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTGCTCCATTGATGC 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGCTCCATTGATGC 15
                                                                                                                                                                                                                                                                                                                                                                                                Klimuk SK,
Debeyer D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97US-00856374.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-00078954
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      base= OTHER
                                                                                                                                                                                                               48pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                         Harasym T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Optionally phosphorothicate backbone"
                                                                                                                                                                                                                                                                and a charged
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
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Pred. No. 1.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                             of e.g. tumors comprises harged therapeutic agent.
                                                                                                                                                                                                                                                                                                                                                                                                                         Hope MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene; human; infectious disease; ss
                                                                                                                                                                                                                                                                                                                                                                                                                         Ansell SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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        neutral form at a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATG-AS.
                                                                                                                                                                                                                                                                                      particles
                                                                                                                                                                                                                                                                                                                                                                                                                           Cullis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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밁 S

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RESULT 5
ACCS 517
ID ACCS 527
XX ACCS
XX ACCS
XX C1pi
XX Lipi
XX C-Ra
XX C-Ra
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                                                                                                               Improved mucosal adjuvant useful in the preparation of vaccine for stimulating an immune response comprises a lipid-nucleic acid formulation containing a nucleic acid component encapsulated by a lipid.
                                                                                                                                                                                                                                                                                                                                                                                                                               07-NOV-2001; 2001US-0337522P
10-MAY-2002; 2002US-0379343P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lipid nucleic
C-Raf-s; ss.
                                                         Disclosure; Page 21; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-NOV-2002; 2002WO-CA001717
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                                                                                                                                                                                                                                               WPI; 2003-493235/46.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-MAY-2003
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/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LNA; mucosal; vaccine; immunostimulant; human;
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Pred. No.
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The present sequence is that of oligodeoxynucleotide ODN #25 (hC-Raf-1)

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RESULT 6
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            therapeutic oligonucleotide; double-stranded RNA; dsRNA; mobile protein; cytostatic; immunosuppressive; virucide; anti-HIV; antibacterial; cardiant; hyperproliferation; cancer; haematological; metastatic; autoimmune disease; infection; endocrine; neural; cardiovascular; pulmonary; reproductive system disorder; endocytosis; metabolic process; murine; intracellular adhesion molecule 1; ICAM-1;
                                                                                                                                                                       Treating diseases with oligonucleotides or interfering RNA, useful efor cancer or autoimmune diseases, covalently coupled to mobile protein vivo or in vitro.
                                                                                                                                                                                                                                                                                                 WPI; 2003-646491/61.
                                                                                                                                                                                                                                                                                                                                                              Xie D;
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The present invention describes a method for treating a disease by administering: (a) a therapeutic oligonucleotide (TON) or double-stranded

Chemosensitization of tumor tissue, useful for treating leukemia, lymphoma or myeloma, comprises administering a

þ cancer,

chemotherapeutic

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Claim 128; Page 12; 42pp; English

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Best Local :
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                                                            WPI; 2003-689738/65.
                                                                                                                                                                                                                                                                                                            28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                          Unidentified.
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                                                                                                                                                                 NEOPHARM INC.
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Pred. No. 1.1e+02;
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RESULT 8
ADB97456
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a novel method for the chemosensitisation of C tumour tissue, comprising administering a chemotherapeutic agent and a composition comprising cationic liposomes consisting of cationic lipid, phosphatidylcholine and cholesterol, where oligonuclectide(s) are carcapsulated within the liposome. The invention further relates to a composition comprising liposomes consisting essentially of a cationic lipid like dimethyldioctadecyl ammonium bromide (DDAB) or dimyristoyl trimethyl ammonium propane (DMTAP), phosphatidylcholine (PC), trimethyl ammonium propane (DMTAP), phosphatidylcholine (PC), where only the terminal sequences are phosphorothioated. The method is useful for chemosensitisation of a tumour tissue or cancer, including leukaemia, lymphoma, myeloma, carcinoma or sarcoma. The combination therapy may be used for any stage of cancer ranging from pre-cancerous lesions to cancer of advanced stages. This polynucleotide sequence represents the sense invention.
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Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dimyristoyl trimethyl ammonium propane; DMTAP; phosphatidylcholine; PC cholesterol; cancer; leukaemia; lymphoma; myeloma; carcinoma; sarcoma; combination therapy; pre-cancerous lesion; chemotherapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antisense; ATG-AS; raf ODN; chemosensitisation; tumour tissue; chemotherapeutic agent; cationic liposome; cationic lipid; phosphatidylcholine; cholesterol; liposome; dimethyldioctadecyl ammonium bromide; DDAB;
                                                 Chemosensitization of tumor tissue, useful for treating leukemia, lymphoma or myeloma, comprises administering agent and cationic liposomes containing oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-DEC-2003
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                                                                                                                                                                       WPI; 2003-689738/65.
                                                                                                                                                                                                                           Rahman
                                                                                                                                                                                                                                                                                                           (GEOU )
                                                                                                                                                                                                                                                                                                                                                                                             15-FEB-2002; 2002US-00075994
                                                                                                                                                                                                                                                                                                                                                                                                                                               14-FEB-2003; 2003WO-US004681.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2003070221-A1
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Example 1; Page 18; 77pp; English
                                                                                                                                                                                                                                                         Kasid U,
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NEOPHARM INC.
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                                                                                                                                                                                                                                                      Gokhale P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ATG-AS) raf ODN oligodeoxyribonucleotide.
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                                                                                                                                                                                                                                                      Pei J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 G;
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Pred. No. 1
                                                                                                                                                                                                                                                      Mewani R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 T;
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thes 0;
                                                       oligonucleotides
                                                                                                                                                                                                                                                         Ahmad
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                                                                                  a chemotherapeutic
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RESULT 9
ADF82830
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Best Local Similarity
                                         New pathogen vaccine having a lipid-nucleic acid formulation combination with at least one microbial antigen, useful for \epsilon enhanced responses against bacterial, viral and parasitic inf
                                                                                                                                Semple
                                                                                                                                                                                          10-MAY-2002; 2002US-0379343P
07-NOV-2002; 2002US-00290545
12-MAR-2003; 2003US-0454298P
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                                                                                                     WPI; 2003-903935/82.
                                                                                                                                                                                                                                                                                   20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                           modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-FEB-2004
                                                                                                                                                                                                                                                      12-MAY-2003; 2003WO-CA000680
                                                                                                                                                                                                                                                                                                                  WO2003094829-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Immunostimulant ODN25, component of lipid-nucleic acid vaccine.
                                                                                                                                                               (INEX-) INEX PHARM CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     immunostimulant;
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                                                                                                                                Chikh G,
              SEQ
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              占
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/mod_ba
                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                               note= "OTHER= optional phosphorothioate nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vaccine; lipid-nucleic acid; phosphorothioate; human;
              ö
                                                                                                                                 Норе
                                                                                                                                                                                                                                                                                                                                                                base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 15; DB 10; 100.0%; Pred. No. 1.1e+02;
           25; 138pp; English
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                                                        stimulating
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RESULT 10
ADE90171
ID ADE90
X P S X P P P T X P P P P P P P P P P P P X P P X X P X X S X X W X W X X D X X D X X D X X P X X D X D X D 
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Best Local S
Matches 15
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                                                                               Preparation of a composition comprising lipid-encapsulated therapeutic agent particles, useful for introducing a nucleic acid into a cell and for treating diseases characterized by aberrant gene expression
                                                                                                                                                                                                                                                  Semple SC,
Scherrer P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          aberrant gene expression; intercellular adhesion molecule; ICAM-1; c-myc; c-myb; ras; raf; erb-B-2; protein kinase C; pKC-alpha; insulin-like growth factor; IGF-IR; epidermal growth factor receptor; EGFR; vascular endothelial growth factor; VEGF; VEGF-R-1; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (KLIM/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-JUN-2001; 2001US-00895480
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                             (CULL/)
                                                                                                                                                                                                                                                                                                                                                                                                                                          (HOPE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-MAY-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (HARA/)
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                                                                                                                                                                                                                                                                                                                                                     HARASYM T.
HOPE M J.
ANSELL S M.
CULLIS P.
SCHERRER P.
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Debeyer D;
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Disclosure; SEQ

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52pp; English

The present invention describes a cancer vaccine (I), which comprises a lipid-nucleic acid (LNA) formulation in combination with at least one tumour-associated antigen that is mixed with or associated with the LNA formulation comprising a lipid component having at least one cationic lipid, and a nucleic acid component comprising at least one oligonucleotide, where the vaccine is capable of stimulating a Th-1 base

a Th-1 based

Example 9; SEQ

ID NO 25; 119pp;

English.

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                                                                                                                                                                                                                                                                             New cancer vaccine having a lipid-nucleic acid formulation in combination with at least one tumor-associated antigen, useful for stimulating enhanced responses against tumor-associated antigens and for inhibiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-MAY-2002; 2002US-0379343P.
07-NOV-2002; 2002US-00290545.
04-APR-2003; 2003US-0460646P.
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Pred. No. 1.1e+02;
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                                                                                                                                                        Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to reducing the platelet count in a patient comprises preparing a formulation of an oligonuclectide with an agent that enhances penetration of the oligonuclectide into cells, and administering the formulation to a patient having an elevated platelet count. The oligonuclectide is useful for preparing a medicament for reducing the platelet count in a patient, particularly for treating thrombocytosis. The present sequence represents an oligonuclectide of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     immune response in vivo to the at least one tumour-associated antigen. (I) has cytostatic activity, and can be used in vaccines, and in gene therapy. The methods and compositions of the present invention can be used for stimulating enhanced responses against tumour-associated antigens and for inhibiting tumour growth. The present sequence represents an oligonucleotide which is used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Reducing the platelet count in a patient, useful for treating thrombocytosis, comprises administering antisense oligonucleotides inhibiting raf-1 gene with an agent that enhances penetration of the contraction of the contr
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                                                                              GTGCTCCATTGATGC 15
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                                                                                                                                                            Mismatches
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. 1.1e+02;
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                                                                                                                                                                                                                                                                                    CC formulation for stimulating an immune response in an animal, comprising a clipid component and a nucleic acid component which is a methylated component acid sequence. Also describe: (1) an adjuvant comprising a lipid comcleic acid sequence. Also describe: (2) a vaccine comprising the LNA component which is a methylated component acid (LNA) formulation; (2) a vaccine comprising the LNA component acid (LNA) formulation with at least one target antigen; (3) comprising administering to the host the LNA formulation; (4) stimulating comprising dendritic cells in vivo, comprising contacting at least one comprising dendritic cell with the lipid-methylated nucleic acid formulation to a component and adjuvant immune component and adjuvant immune component and adjuvant immune component acid formulation associated with a target antigen. The lipid-component acid formulation associated with a target antigen. The lipid-component acid formulation and methods are useful in component acid and antiarthritic activities, and can be used in component acid and antiarthritic activities, and can be used in component acid and activities, and can be used in component activities and can be used in component activities and can be used in component activities. The present activities and can be used in continuation, arthritis or immunocetimic activities. The present continuation and antiarthritic cell populations in response to antigenic stimulation, arthritis or immunocetimic activities. The present activities and can be used to antigenic stimulation and antiarthritic cell populations in response to antigenic stimulation and antiarthritic cell populations in response to antigenic stimulation and antiarthritic cell populations in response to antigenic stimulation and antiarthritic cell populations in response to antigenic stimulation and antiarthritic cell populations in response to antigenic stimulation and antiarthritic cell populations in response to antigenic stimulation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-MAY-2002; 2002US-0379343P.
07-NOV-2002; 2002US-00290545.
04-APR-2003; 2003US-0460646P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                lipid-methylated nucleic acid formulation; immune response; lipid-nucleic acid; vaccine; immunostimulant; cytostatic; antiinflammatory; antiarthritic; gene therapy; cancer; inflaarthritis; immunodeficiency disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-MAR-2004
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                                                                                                                                                      Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                               sequence represents a methylated immunostimulatory oligonucleotide given in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 25; 102pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tam YK,
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    15;
                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Semple S,
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Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention describes a lipid-methylated nucleic acid
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                                    100.0%;
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                                    Score 15; DB 12;
Pred. No. 1.1e+02;
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                                                                                                                                                                                                                                                                                                                                                              invention relates to novel gemcitabine compositions and their use in treating proliferative diseases such as cancer, particularly in mammals especially in humans. The compositions include liposome-entrapped gemcitabine. The cancer is especially lymphoma, ovarian cancer, breast cancer, pancreatic cancer, lung cancer or colon cancer. The liposomal gemcitabine compositions can be used in conjunction with secondary therapeutic agents including antineoplastic, antifungal and antibiotic agents as well as antisense oligonucleotides, especially an antisense oligonucleotide to raf (claimed).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Treatment of cellular proliferative disease e.g. cancer involves administration of a composition comprising liposomal gemcitabine negatively charged phospholipid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligonucleotide
     WO2004071466-A2
                               Synthetic.
                                                       C-raf-1; liposomal; antineoplastic; cytostatic; cancer; antisense; ss.
                                                                                   Anti c-raf-1 oligonucleotide
                                                                                                             18-NOV-2004
                                                                                                                                      ADR88950;
                                                                                                                                                                ADR88950 standard;
                                                                                                                                                                                                                                                                                                                                      Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present sequence is that of an antisense oligonucleotide to raf. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 1; 25pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-257219/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zhang J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-AUG-2002; 2002US-0405378P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Raf; antisense; liposome; drug delivery; cytostatic; ss.
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                                                                                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                                                                                    15;
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                                                                                                                                                                                                                                                          GTGCTCCATTGATGC 15
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                                                                                                                                                                                                                                                                                    Conservative
                                                                                                           (first entry)
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                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                             100.0%;
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Pred. No. 1.1e+02;
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                                                                                                                                                                             comethod involves: dissolving a lipid fraction in a water-miscible organic comprising the lipid fraction with an aqueous solution under conditions composition bulk liposomal composition. The method further involves adding to form a bulk liposomal composition. The method further involves adding at least one active principal to the water-miscible organic solvent prior countries or after the step (b), size-reducing the bulk liposomal composition of the lipid fraction, or to the aqueous solution prior, composition to obtain a size-reducing the bulk liposomal composition, freeing the composition, sterile-filtering the liposomal composition, freeing the composition, sterile-filtering the liposomal composition and freeze-drying composition, sterile-filtering the liposomal composition and freeze-drying composition, sterile-filtering the liposomal composition and freeze-drying composition solution to the aqueous solution while mixing and mixing of solution following addition of water-miscible solvent comprising the composition following addition of water-miscible solvent comprising the composition for active principal comprises at least one antineoplastic or antifungal agent (preferably taxane, camptothecin or their derivatives, especially consistence, camptothecin or their derivatives, especially consistence, completely eradicate the effects of the disease or its symptoms, need not completely eradicate the effects of the disease, consistence of liposomal formulation on a commercial scale. The present consistence represents an antisense oligonucleotide specific for c-raf-1, that can be used as an active principal.
                                                                                        Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Preparation of liposomal composition used for treating e.g. cancer involves dissolving lipid fraction in water miscible organic solven mixing solvent solution with aqueous solution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bhamidipati S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-FEB-2003; 2003US-0446895P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to the preparation of a liposomal composition. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 6; 27pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-AUG-2004.
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                                                                                                              Similarity
                                       GTGCTCCATTGATGC 15
GTGCTCCATTGATGC 15
                                                                                      Conservative
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                                                                                                         100.0%; Score 15; DB 13; 100.0%; Pred. No. 1.1e+02;
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Perfect score:
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Listing first
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seq length: 50
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Match
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1: gb_htg:*
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BD014421 Method fo	AR069912 Sequence	AR148361 Sequence	AR123544 Sequence	AR122889 Sequence	AR092534 Sequence	AR080410 Sequence	A16267 Oligonucleo	A16266 Oligonucleo	A16281 Oligonucleo	AR493387 Sequence	AR215956 Sequence	I27233 Sequence 3	E49513 Antisense o	AR106991 Seguence	AR106990 Sequence	AR073934 Sequence	CQ749113 Sequence	AR039324 Sequence	AX289556 Sequence	AX598466 Sequence	AX294189 Sequence	AR070338 Sequence	AR037100 Sequence	AR215955 Sequence	127232 Sequence 2

RESULT 2 AR110777/c LOCUS DEFINITION ACCESSION VERSION VERSION KEYWORDS SOURCE ORGANISM REFERENCE AUTHORS TITLE	Best Jocal Best Local Matches 1 Qy 1 Db 1	SOURCE SOURCE SOURCE ORIGIN	RESULT 1 AR110775 LOCUS DEFINITION ACCESSION VERSION VERSION
AR110777 AR110777 AR110777.1 GI:12827625 Unknown. Unclassified. 1 (bases 1 to 15) Kasid, U., Gokhale, P., Dritschilo, A. and Ral Liposomes containing oligonucleotides	Similarity 100.0%; Pred. No. 1.2e+0;; conservative 0; Mismatches 0; GTGCTCCATTGATGC 15	nknown. nknown. nclassified. (bases 1 to 15) asid,U., Gokhale,P., Dritschilo,A. and R iposomes containing oligonucleotides atent: US 6126965-A 1 03-0CT-2000; Location/Qualifiers 115 /organism="unknown" /mol_type="unassigned DNA"	AR110775 15 bp DNA Sequence 1 from patent US 6126965. AR110775 AR110775.1 GI:12827623
linear Rahman,A.	Indels	Rahman,A.	linear
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14-FEB-2001	Gaps 0;		PAT 14-FEB-2001

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Semple, S.C., Klimuk, S.K., Harasym, T., Hope, Cullis, P., Scherrer, P. and Debeyer, D.

Charged therapeutic agents encapsulated in containing four lipid components

Patent: US 628759, A 15 11-SEP-2001;
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                                                                                                                        Zhang, J.A. and Ahmad, I. Liposomal gemcitabine compositions for Patent: WO 2004017944-A 1 04-MAR-2004;
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Sequence 1 from Patent WO2004017944.
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Location/Qualifiers
                                                 /organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Anti-raf-oligonucleotides"
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/mol_type="unassigned
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1 GTGCTCCATTGATGC 15
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Kasid,U., Gokhale,P., Zhang,C., Dritschilo,A. and Rahman,A.
Cationic liposomal delivery system and therapeutic use thereof
Patent: US 6559129-A 1 06-MAY-2003;
Location/Qualifiers
                                                                                                                                                                                                                                                                                1 (bases 1 to 15)
Kasid,U., Gokhale,P., Zhang,C., Dritschilo,A. and Rahman,A.
Cationic liposomal delivery system and therapeutic use thereof
Patent: US 6559129-A 3 06-MAY-2003;
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Sequence 3 from patent US
AR310687
AR310687.1 GI:31703831
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/mol_type="genomic
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/mol_type="genomic |
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AX957740
AX957740.1 GI:40785558
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Inex Pharmaceuticals Corp. (CA)
Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
           Tam,Y.K., Semple,S., Klimuk,S. and Chikh,G. Cancer vaccines and methods of using the same Patent: WO 03094828-A 25 20-NOV-2003;
                                                                                                          Homo sapiens (human)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Methylated immunostimulatory oligonucleotides
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Mammalia; Eutheria; Primates;
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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Pred. No. 1.2e+03;
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Sequence
AX958145
                                                                           Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydia.

1 (bases 1 to 15)

Semple,S.C., Klimuk,S.K., Harasym,T., Hope,M.J., Ansel,S.M.,
Cullis,P., Scherrer,P. and Debeyer,D.S.

High efficiency encapsulation of charged therapeutic agents in
lipid vesicles
lipid vesicles
Patent: JP 2002501511-A 15 15-JAN-2002;
INEX PHARMACEUTICALS CORP
PN JP 2002501511-A/15
PD 15-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15;
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STEVEN M ANSELL,
PI PIETER CULLI
CC Strandedness
                                                                                                                                                                                                                                                                                                                                 High efficiency encapsulation
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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PIETER CULLIS, PETER SCHERRER, DAN SUITE DEBEYER Strandedness: Single;
                                             14-MAY-1998 JP 1998548646
SEAN C SEMPLE, SANDRA K KLIMUK, TROY HARASYM, MICHAEL
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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Best

FEATURES

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Key

Location/Qualifiers.

Topology: Linear;

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FEATURES
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AR216002
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Matches 15
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Best Local Similarity 100.0%; Pred. No.
Matches 15; Conservative 0; Mismatch
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AR073978
AR073978.1 GI:10000738
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Sequence 49 from patent US
AR216002
AR216002.1 GI:23314290
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Monia, B.P.
Antisense oligonucleotide inhibition of raf gene expression Patent: US 6410518-A 49 25-JUN-2002;
                                                                                                                                                                                       Unknown
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/mol_type="genomic DNA"
/db_xref="taxon:35827"
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/mol_type="unassigned DNA"
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                                                                                      /mol_type="genomic DNA"
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                                100.0%; Score 15; DE 100.0%; Pred. No. 1.1 tive 0; Mismatches
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Search completed: June 21, Job time: 1689 secs
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Sequence 2 from
AR110776
                                             1 (bases 1 to 25)
Kasid,U., Gokhale,P., Zhang,C., Dritschilo,A. and Rahman,
Cationic liposomal delivery system and therapeutic use th
Patent: US 6559129-A 2 06-MAY-2003;
Location/Qualifiers
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1 (bases 1 to 25)

1 (bases 1 to 25)

Kasid, U., Gokhale, P., Dritschilo, A. an Liposomes containing oligonucleotides Patent: US 6126965-A 2 03-OCT-2000;

Locarion/Qualifiers
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Sequence 2 from patent US
AR310686
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                                                                                                                                                  /organism="unknown"
/mol_type="genomic DNA"
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/mol_type="unassigned DNA"
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           2005, 06:00:54
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Pred. No. 1.1e+03;
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Listing first 45 summaries
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seq length: 50
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Match Length
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1: /cgn2_6/ptodate/1/pubpna/PCT_NEW_PUB.seq:*

1: /cgn2_6/ptodate/1/pubpna/PCT_NEW_PUB.seq:*
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Copyright (c) 1993 - 2005 Compugen Ltd.
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6/ptodata/1/pubpna/US11, NEW PUB.seq: *
6/ptodata/1/pubpna/US10 NEW PUB.seq: *
6/ptodata/1/pubpna/US60 NEW PUB.seq: *
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9 US-09-930-283A-3
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  US-09-895-480A-15

US-10-290-545-25

US-10-365-623-16

US-10-075-994A-1

US-10-075-994A-3
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Sequence 1, Appli
Sequence 3, Appli
Sequence 15, Appl
Sequence 25, Appl
Sequence 16, Appl
Sequence 1, Appli
Sequence 3, Appli
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US-09-930-283A-1
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e 6,	Sequence 5, Appli	6	e 5,	3, Appl	e 5, App	e 127	e 12743	e 12716	æ	36	e 78194	.35798		m	Ф.	o	Sequence 59921, A	e 12019,	e 657, A	19,	e 495729	e 2, App	2, Ac			113550	e	e 2		e 47,	e 49,		25,	25,	25	e 1	Sequence 4, Appli

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S-09-930-283A-1
Sequence 1, Application US/09930283A
Sequence 1, Outsource 1, Application US/09930283A
Patent No. US20020160038A1
Patent No. US20020160038A1
GENERAL INFORMATION:
APPLICANT: Kasid, Usha
APPLICANT: Kasid, Usha
Dritschilo, Prafulla
Dritschilo, Anatoly
Rahman, Aqulur
TITLE OF INVENTION: Liposomes containg Oligonucelotides
NUMBER OF SEQUENCES: 3
CORRESSEE: Hendricks and Assoc.
STREET: P.O. Box 2509
CITY: Fairfax
STATE: VA
COUNTRY: US
ZIP: 20031
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION UNMBER: US/09/930,283A
FILING DATE: 16-Aug-2001
CLASSIFICATION NUMBER: 09/354,109
FILING DATE: 1999-07-15
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ATTORNEY/AGENT INFORMATION:

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                                    PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/354,109
FILING DATE: 1999-07-15
ATTORNEY/AGENT INFORMATION:

NAME: Hendricke, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: kasid
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 591-4470
TELEFAX: (703) 591-4428
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TYPE: nucleic acid
STRANDENESS: single
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Best Local Similarity lvv.
15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (703) 59
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 22031
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gokhale, Prafulla
Dritschilo, Anatoly
Rahman, Aqulur
TITLE OF INVENTION: Liposomes containg Oligonucelotides
NUMBER OF SEQUENCES: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
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REGISTRATION NUMBER: 32,535
REFERENCE, DOCKET NUMBER: kasid
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 591-4470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
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HYPOTHETICAL: NO
            TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 GTGCTCCATTGATGC 15
                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/09/930,283A FILING DATE: 16-Aug-2001 CLASSIFICATION: <Unknown>
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TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: VA
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CITY: Fairfax
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: US
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RESULT 4 US-10-290-545-25

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; ANTI-SENSE: YES
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-930-283A-3
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US-09-895-480A-15
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Publication No. US20030129221A1
GENERAL INFORMATION:
APPLICANT: Inex Pharmaceuticals Inc.
TITLE OF INVENTION: High Efficiency Encapsulation of Charged Therapeutic
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                                                                   Matches
                                                                                  Query Match
Best Local
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TELEY: <Unknown>
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/895,480A
FILING DATE: 29-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
HYPOCHETICAL: no
ANTI-SENSE: yes
                                                                                                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER: <Unknown>
REFERENCE/DOCKET NUMBER: <Unknown>
TELECOMMUNICATION INFORMATION:
TELEPHONE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: <Unknown>
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS 5.0
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                      1 GTGCTCCATTGATGC 15
                                                                                    Similarity
GIGCICCATIGATGC 15
                                                                                                                                                                                                                                          TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: US
ZIP: 80435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Dillon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Oppedahl & Larson LLP
STREET: PO Box 5068
                                                                                                                                                                                                                                                                             LENGTH: 15
                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 15; DB 9; 100.0%; Pred. No. 1.3e+02;
                                                                                  100.0%;
                                                                                    100.0%; Score 15; DB 10;
100.0%; Pred. No. 1.3e+02;
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                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                          <Unknown>
                                                                                                    DB 10;
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OTHER INFORMATION: Antisense oligonucleotide directed against human c-raf-1 protein
OTHER INFORMATION: kinase
US-10-365-623-16
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US-10-365-623-16
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                                                                                                                                                                                                               Sequence 1, Application US/10075994A Publication No. US20030215489A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Klimuk, Sandy
APPLICANT: Yuan, Zuan-Ning
TITLE OF INVENTION: Improved Mucosal Vaccines and Methods for Using the Same
FILE REFERENCE: A-71854/TAL/AXG
CURRENT APPLICATION NUMBER: US/10/290,545
CURRENT FILING DATE: 2002-11-07
NUMBER OF SEQ ID NOS: 30
SOFTWARE: Patentin version 3.1
SEQ ID NO 25
                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Xie, Dong
APPLICANT: Xie, Dong
TITLE OF INVENTION: Protein Carrier System for Therapeutic Oligonucleotides
FILE REFERENCE: 63024.000001
CURRENT APPLICATION NUMBER: US/10/365,623
CURRENT FILING DATE: 2003-02-13
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                                                                                                                                                             APPLICANT: KASID, APPLICANT: GOKH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn version 3.1
SEQ ID NO 16
CURRENT APPLICATION NUMBER: US/10/075,994A
CURRENT FILING DATE: 2002-02-15
                                  FILE REFERENCE: 219604
                                       APPLICANT: RAHMAN, Aquilur
TITLE OF INVENTION: CHEMOSENSITIZING WITH LIPOSOMES CONTAINING OLIGONUCLEOTIDES
                                                                                                          APPLICANT:
                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
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                                                                                   MEWANI, Rajshree
AHMAD, Imran
DRITSCHILO, Anatoly
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Pred. No.
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-075-994A-3
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FILE REFERENCE: 219604
CURRENT APPLICATION NUMBER: US/10/075,994A
CURRENT FILING DATE: 2002-02-15
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin version 3.2
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOPTWARE: PatentIn version 3.2 SEQ ID NO 3 LENGTH: 15
                                                                                                                                                                                                                                                           GENERAL INFORMATION
                                                                                                                                                                                                                                                                           Sequence 4, Application US/10075994A Publication No. US20030215489A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local
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Best Local Similarity
Matches 15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Publication No. US20030215489A1
                                                                                                        APPLICANT: MEWANI, Rajshree
APPLICANT: AHMAD, Imran
APPLICANT: DRITSCHILO, Anatoly
APPLICANT: RAHMAN, Aquilur
APPLICANT: RAHMAN, Aquilur
APPLICANT: RAHMAN, CHEMOSENSITIZING WITH LIPOSOMES CONTAINING OLIGONUCLEOTIDES
                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                   APPLICANT: KASID, APPLICANT: GOKHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: 219604
CURRENT APPLICATION UMBER: US/10/075,994A
CURRENT FILING DATE: 2002-02-15
NUMBER OF SEQ ID NOS: 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: DRITSCHILO, Anatoly
APPLICANT: RAHMAN, Aquilur
TITLE OF INVENTION: CHEMOSENSITIZING WITH LIPOSOMES CONTAINING OLIGONUCLEOTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: KASID, USI
APPLICANT: GOKHALE,
APPLICANT: PIE, Jin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA ORGANISM: Artificial Sequence
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AHMAD, Imran
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100.0%; Pred. No. 1.3e+02;
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RESULT 10
US-10-437-263-25
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US-10-347-924-1
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CURRENT APPLICATION NUMBER: US/10/347,924

CURRENT FILING DATE: 2003-01-21

PRIOR APPLICATION NUMBER: US 09/354,109

PRIOR FILING DATE: 1999-07-15

PRIOR APPLICATION NUMBER: US 08/957,327

PRIOR FILING DATE: 1997-10-24

PRIOR APPLICATION NUMBER: US 60/041,192

PRIOR FILING DATE: 1997-03-21

NUMBER OF SEQ ID NOS: 1
                                                                                                                                                                                                                                                                                                                       Sequence 25, Application US/10437263
Publication No. US20040009943A1
GENERAL INFORMATION:
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Publication No. US20030229040A1
GENERAL INFORMATION:
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TITLE OF INVENTION: PATHOGEN VACCINES AND METHODS FOR USING THE SAME FILE REFERENCE: A-72216/TAL CURRENT FILING DATE: 2003-05-12 CURRENT FILING DATE: 2003-05-12 PRIOR APPLICATION NUMBER: 60/379,343 PRIOR FILING DATE: 2002-05-10 PRIOR PILING DATE: 2002-05-10 PRIOR PILING DATE: 2002-05-05 PRIOR APPLICATION NUMBER: 60/460,646 PRIOR FILING DATE: 2003-04-04 PRIOR APPLICATION NUMBER: 60/454,298 PRIOR APPLICATION NUMBER: 60/454,298
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                                                                                                                                                                                                                     APPLICANT: Semple, Sean
APPLICANT: Tam, Ying K.
APPLICANT: Chikh, Ghania
APPLICANT: Hope, Michael J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Gokhale, Prafulla
APPLICANT: Zhang, Chuanbo
APPLICANT: Dristschilo, Anatoly
APPLICANT: Rahman, Aquilur
APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Kasid, Usha APPLICANT: Gokhale, P
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ORGANISM: Artificial
FEATURE:
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Sequence 25, Application US/10437258

Publication No. US20040013649A1

GENERAL INFORMATION:

APPLICANT: Tam, Ying K.

APPLICANT: Semple, Sean

APPLICANT: Stimuk, Sandra

APPLICANT: Klimuk, Sandra

APPLICANT: Klimuk, Sandra

CURRENT FILING DATE: 203-05-12

PRIOR APPLICATION NUMBER: 60/460,646

PRIOR FILING DATE: 2003-04-04

PRIOR APPLICATION NUMBER: 60/454,298
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-437-263-25
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SEQ ID NO 25
LENGTH: 15
TYPE: DNA
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 100.0%; Score 15; DB 17; Best Local Similarity 100.0%; Pred. No. 1.3e+02; Matches 15; Conservative 0; Mismatches 0;
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Publication No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Semple, Sean
APPLICANT: Semple, Sean
APPLICANT: Klimuk, Sendra
APPLICANT: Chikh, Ghania
APPLICANT: Chikh, Ghania
TITLE OF INVENTION: METHYLATED IMMUNOSTIMULATORY OLIGONUCLEOTIDES AND METHODS
TITLE OF INVENTION: USING THE SAME
FILE REFERENCE: A-72189/TAL
CURRENT APPLICATION NUMBER: US/10/437,275
CURRENT FILING DATE: 2003-05-12
CURRENT FILING DATE: 2003-05-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 10/290,545
PRIOR FILING DATE: 2002-11-07
NUMBER OF SEQ ID NOS: 32
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: 60/379,343
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: 60/460,646
PRIOR FILING DATE: 2003-04-04
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PRIOR FILING DATE: 2003-03-12
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn version 3.2
SEQ ID NO 25

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                                Matches
                                              Query Match
Best Local Similarity
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INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
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APPLICANT: Inex Pharmaceuticals Inc.
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TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM: DOS 5.0
OPERATING SYSTEM: DOS 5.0
SOPTWARE: WOR'D PERFECT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/925,734
FILING DATE: 24-Aug-2004
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/9/895,480
FILING DATE: 29-Jun-2001
ATTORNEY/AGENT INFORMATION:
NAME: «Unknown»
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch,
COMPUTER: IBM Compatible
                                                                                                           HYPOTHETICAL: no
ANTI-SENSE: yes
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: <Unknown>TELECOMMUNICATION INFORMATION:
                                                                                                                                                        TOPOLOGY: linear MOLECULE TYPE: other nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: High Efficiency Encapsulation of Charged
                              15;
1 GTGCTCCATTGATGC 15
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                                                                                                                                                                                                         TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                             TELEPHONE: <Unknown>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Dillon
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                                                                                                                                                                                          STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: <Unknown>
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                              Conservative
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                                              100.0%;
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100.0%; Pred. No.
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                                            Score 15; DB 21;
Pred. No. 1.3e+02;
                              Mismatches
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                              Gaps
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NUMBER OF SEQ ID NOS: 109
SEQ ID NO 47
LENGTH: 20
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Best Local (
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SEQ ID NO 49
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                                                                                                                                                                                                                                                CURRENT FILING DATE: 2002-12-06
PRIOR APPLICATION NUMBER: US 10/057,550
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: US 09/143,214
PRIOR FILING DATE: 1998-08-28
PRIOR APPLICATION NUMBER: PCT/US98/13961
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PRIOR FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: US 09/143,214
                                                               PRIOR FILING DATE: 1995-05-31
PRIOR APPLICATION NUMBER: US 08/250,856
PRIOR FILING DATE: 1994-05-31
                                                                                                                                                PRIOR FILING DATE: 1998-07-06
PRIOR APPLICATION NUMBER: US 08/888,982
PRIOR FILING DATE: 1997-07-07
PRIOR APPLICATION NUMBER: US 08/756,806
PRIOR FILING DATE: 1996-11-26
                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/10/173,225B
                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Monia, Brett P.
TITLE OF INVENTION: Antisense Oligonucleotide Modulation
FILE REFERENCE: ISPH-0665
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TYPE: DNA
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PRIOR APPLICATION NUMBER: US 08/888,982
PRIOR FILING DATE: 1997-07-07
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                                                                                                                                APPLICATION NUMBER: PCT/US95/07111
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Pred. No. 1.3e+02;
Mismatches 0;
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Gapop 10.0 , Gapext 1.0
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190.385 Million cell updates/sec
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CW50928 BGA343 BG
CCE99114 RRK138 Ba
CCE994144 RRK138 Ba
CC200383 RRE120 Ba
CC559092 PRIO133a
AG190569 PAIN trog1
AZ579181 1M0363G10
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AV833106 BJ001161	AI426076	AI900047	CG785587	AZ654998	CC049952	BJ060580	AZ991985	AZ308069	BX654661	BH852072	AI888465	AI035265	CG781920	BZ664429	AZ786136	AG199008	BZ596965	AZ760244
AV833106 BJ001161	mh31h05.x	sb98b08.y	00S0119-0	1M0529L12	0180530-0	вJ060580	2M0276P21	1M0010N09	Arabidops	SALK 0741	wn32a07.x	ue18b08.x	1123047D1	SALK_0711	1M0031M21	Pan trogl	SALK_0979	1M0553C19

TITLE JOURNAL COMMENT REFERENCE AUTHORS RESULT 1 AA434107/c LOCUS ACCESSION VERSION KEYWORDS FEATURES DEFINITION ORGANISM Bource Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R. WashU-Merck EST Project 1997 Unpublished (1997) zw24b01.sl Soares ovary IMAGE:770185 3' similar Email: est@watson.wustl.edu This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. Trace considered overall poor quality Possible reversed clone: similarity on wrong strand Seq primer: -41ml3 fwd. ET from Amersham AA434107 Tel: 314 286 1800 Fax: 314 286 1810 Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Homo sapiens AA434107.1 GI:2139021 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. Contact: Wilson RK Homo sapiens (human) (bases 1 to 40) mRNA sequence. quality sequence stop: 1. /organism="Homo sapiens" /mol_type="mRNA" /db_xref="GDB:5980060" /db_xref="taxon:9606" /clone="IMAGE:770185" /sex="Female" ocation/Qualifiers tumor NDHOT Homo sapiens cDNA clone to TR:G556217 G556217 SPLICEOSOMAL PROTEIN. 40 bp mRNA linear Geisel,G., Jost,S., M., Martin,J., EST 29-MAY-1997 2

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Hansen,J., Floss,T., van Sloun,P., Fuchtbauer,E.M., Vauti,F.,
Arnold,H.H., Schnutgen,F., Wurst,W., Von Melchner,H. and Ruiz,P.
Alarge-scale, gene-driven mutagenesis approach for the functional
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                                                                                                                                                                                      /cell type="Embryonic stem cell"
/cell_line="ES cells 129S2 (formerly 129/SvPas)"
/clone_lib="GGTC Gene Trap Library GV03C04"
/note="Vector: pTlbetageo"
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/strain="129 Sv"
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CC894144.2
                                                                                                                                                                                   On Sep 2, 2003 this sequence version replaced gi:33392557. Contact: BayGenomics
Contact: BayGenomics
Bay Area Functional Genomics Consortium (BayGenomics)
Bmail: info@baygenomics.ucsf.edu
Sequence tag generated by 5' RACE of total RNA from gene trap Ex
cell line. ES cell lines harboring insertion mutation of target
gene are available upon request from BayGenomics. Annotation
information available from
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41 bp mRNA linear GSS 06-OCT-BGA434 BayGenomics Gene Trap Library pGTILxf Mus musculus cDNA,
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RRK138 BayGenomics Gene Trap
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Bay Area Functional Genomics Consortium (BayGenomics)
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                                                                                               LINE&KEY=RRK138
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/mol_type="mRNA"
/strain="129 ola"
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/clone_lib="BayGenomics Gene Tra;
/note="Vector: pGTlLxf"
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/sex="Male"
Location/Qualifiers
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No. 2e+04;
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Library
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CL659092 32 bp DNA linear GSS 09-JUL-20 PRI0133a_G11 - PRI0133a_B21.1 (32) Mixed stage fosmid library of pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: BayGenomics
Bay Area Functional Genomics Consortium (BayGenomics)
Bay Area Functional Genomics Consortium (BayGenomics)
Email: info@baygenomics.ucsf.edu
Sequence tag generated by 5' RACE of total RNA from gene trap ES
cell line. ES cell lines harboring insertion mutation of target
gene are available upon request from BayGenomics. Annotation
information available from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      http://baygenomics.ucsf.edu/
Unpublished (2001)
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                                                                                                                                           TGCTCCATTGATGC 15
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                                                                                                                                                                                                                                                          note="Vector:
                                                                                                                                                                                                                                                                                                                                                                  organism="Mus musculus"
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strain="129 ola"
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92.9%;
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                                                                                                                                                                                                                                                       _type="Embryonic stem cell"
e_lib="BayGenomics Gene Trap Library pGT2Lxf"
="Vector: pGT2Lxf"
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Pred. No. 2.1e+04;
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Trap Library pGT2Lxf Mus musculus
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Pan troglodytes
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AG190569
AG190569.1 GI:45222745
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/mol_type="genomic DNA"
/strain="California"
/db_xref="taxon:54126"
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var. California"
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86.7%;
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Pred. No. 4.4e+04;
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Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Genome Research Center (GRC); 52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea (B-mail:redstone@mail.kribb.re.kr, URL:http://phs.grc.kribb.re.kr/, Tel:82-42-866-7181, Fax:82-42-860-4409)
Clones are derived from the chimpanzee BAC library RP-43 This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.
                                                                                                                                                                                                                                                                                           Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J., Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H. Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
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Nucleic Acids Res. 32 (1), D421-D422 (2004)
Contact: Sommer RJ
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Pristionchus pacificus
Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;
Neodiplogasteridae; Pristionchus.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
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Pan troglodytes DNA, clone: RP43-066B21.TJ, genomic survey
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This library was generated at Caltech, Pasadena, USA and end
sequenced at Vancouver, Canada.
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RESULT 8
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                                                                                                                                                                                                                                                                                                                                      Tel: 801 585 5606
FAX: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 1000 Std Error: 0.
Plate: 0363 row: G column: 10
Seq primer: CGTTGTAAAACGACGGCCAGT
Class: plasmid ends
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wilght, D., Weiss, R. Mouse whole genome scaffolding with paired end reads from 10kb Mouse whole genome scaffolding with paired end reads
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Unpublished (2000)
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                                                                                                                                                                                                                                                                                             High quality sequence stop: 39.
Location/Qualifiers
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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LIBRARY
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R.Site 1 : EcoRI
R.Site 2 : EcoRI.
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                                                            /lab_host="B. Coli strain XL10-Gold, T1-resistant, F-"/Clone_lib="Mouse 10kb plasmid UUGCIM library"/note="Vector: pW042nv; Purified genomic DNA from M.musculus C57BL/6J (male) was obtained from the Jackson
                                                                                                                                                                                                                                     /mol
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1. .27
                     Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/).
                                                                                                                                                                                          db_xref="taxon:10090"
                                                                                                                                                                                                           /mol_type="genomic DNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                      organism="Mus musculus"
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/clone_lib="RP-43 Chimpanzee Male BAC Library"
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/db_xref="taxon:9598"
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                                                                                                                                                                    clone="UUGC1M0363G10"
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100.0%; Pr
hydrodynamically sheared by repeated passage through
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RESULT 9
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                                                                                                                                                                                                                                                                                                                                                                                              Sequence tag generated by 5' RACE of total RNA from gene trap EX cell line. ES cell lines harboring insertion mutation of target gene are available upon request from TIGEM. Annotation informationavailable from TIGEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Via P. Castellino, 111, 80131 NAPOLI, ITALY Tel: +390816132205 Fax: +390815790919 Email: cobellis@tigem.it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GC0134 TIGEM gene trap library Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: TIGEM
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                                                                                                            /cell_type="Embryonic stem cell"
/cell_line="El4"
/clone_lib="TICEM gene trap library"
/note="Vector: pFLIP1"
                                                                                                                                                                                                                     /strain="129 ola"
/db_xref="taxon:10090"
/clone="8644.24"
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                                                                                                                                                                                                   /sex="male"
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mol_type="mRNA"
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                             73.3%; Score 11; 100.0%; Pred. No.
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           Mismatches
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DB 9; L.
J. 1.4e+05;
O;
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                                                                                                                                                                                                                                                                                                                                                                                              Submitted (31-MAR-2004) Weisshaar B., Max-Planck-Institut fuer Eucethungsforschung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany This sequence has been recovered from the left border of the T-DNA. It indicates an insertion close to or within gene AL1972180. Details on the protocols used for generation of the sequence are described in References 1-3. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German Plant Genomics program designated 'GABI'. Information on line availability can be found at: http://www.mpiz-koeln.mpg.de/GABI-Kat/.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 High-throughput generation of sequence indexes from T-DNA mutagenized Arabidopsis thaliana lines BioTechniques 35 (6), 1164-1168 (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Strizhov, N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         An Arabidopsis thaliana T-DNA mutagenized population (GABI-Kat) for flanking sequence tag-based reverse genetics Plant Mol. Biol. 53 (1-2), 247-259 (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Li,Y., Rosso,M.G., Strizhov,N., Viehoever,P. and Weisshaar,B. GABI-Kat SimpleSearch: a flanking sequence tag (FST) database for the identification of T-DNA insertion mutants in Arabidopsis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Strizhov, N., Rosso, M.G., Li, Y. and Weisshaar, B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Weisshaar,B.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bioinformatics 19 (11), 1441-1442 (2003)
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                   /note="PCR was performed on DNA from Arabidopsis thaliana plants (T1) which were transformed with the T-DNA from vector pAC161 (GenBank accession number: AJ537514). The lines contain one or more T-DNA insertions. The DNA fragment(s) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion.
                                                                                                                                                                                 ecotype="Col-0"
                                                                                                                                                                                                                                                                                               'mol_type="genomic D
'strain="Columbia 0"
                                                                                                                                                                                                                                                                                                                                                 organism="Arabidopsis thaliana"
                                                                                                                                                                                                             clone_lib="Arabidopsis thaliana T-DNA insertion lines"
                                                                                                                                                                                                                                            clone="GK-644G02-022818"
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                                                                                                                                                                                                                                                                xref="taxon:3702"
derived sequences were removed
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                                                                                                                                                                                                                                                                                                                           DNA"
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Query Match Best Local Similarity

73.3%;

Score 11; DB 9; I Pred. No. 1.4e+05;

Query Match Best Local Similarity

Score 10.8; DB 8; Pred. No. 1.7e+05;

Length 26;

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RESULT 11
AZ769902
LOCUS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error:
Plate: 0571 row: G Column: 06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.
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1M0571G06F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0571G06 F, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11; Conservative
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Seq primer: CGTTGTAAAACGACGGCCAGT
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Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               University of Utah Genome Center University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Robert B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unpublished (2000)
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        quality sequence stop: 26.
Location/Qualifiers
          (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi | 4732114 | gb | AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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                                                                                                                                                                                                                                                                                                                                                                                                                                            /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackso
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/mol_type="genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sex="Male"
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                                                                                                                                                               Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus 1 (Dases 1 to 28)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AZ780454 28 bp DNA linear GSS 16 2M0017016R Mouse 10kb plasmid UUGC1M library Mus musculus clone UUGC2M0017016 R, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 TGCTCCATTGATGC 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Contact: Kikuya Kato
Graduate School of Biological Sciences
Nara Institute of Science and Technology
8916-5 Takayama, Ikoma, Nara 630-0101, Japan
Tel: 81-743-72-5581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus 1 (bases 1 to 28)
Kato,K. and Matoba,R.
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University of Utah Genome Center University of Utah
                                                                                  plasmid inserts
Unpublished (2000)
                                                                                                                                    Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                       Mus musculus (house mouse)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: kkato@bs.aist-nara.ac.jp,
URL:http://love2.aist-nara.ac.jp/BED/index.html.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Generation of expressed sequence tags from mouse brain Unpublished (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus
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                                                       Contact: Robert B. Weiss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus (house mouse)
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/clone_lib="3'-directed mouse_cDNA_library"
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/clone="BED0008978"
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85.7%;
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Pred. No. 1.7e+05;
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Best Local Similarity
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Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Erro
Plate: 0017 row: O column: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                       Trypanosoma brucei
Trypanosoma brucei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TA59H06P
                          Constructed at the Institute for Genomic Research
                                                     nhl@sanger.ac.uk
                                                                                                                                                                                                                                                                                    Trypanosoma.
1 (bases 1 to 42)
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.gh quality sequence stop: 28.
Location/Qualifiers
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/strain="C57BL/6J"
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85.7%;
  Genomic DNA isolated from a cloned
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Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 ISA, E-mail: barrell@sanger.ac.uk and
                                                                                                         Hall,N., Bowman,S., Lennard,N.J., Doggett,J., Atkin,R., Chillingworth,C., Ormond,D., Harris,B., El-Sayed,N., Hou,L., Melville,S. E., Rajandream,M.A. and Barrell,B.G. Direct Submission
                                                                                                                                                                                                                                                                                                                               Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rm. 308, Biomedical Polymers Research Bldg.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pND42 (gi 4732114 |gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E, coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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/Clome_lib="Mouse 10kb plasmid UUGCIM library"
/note="Vector: FWPA2nv; burified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackso
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CV521218
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    to give a tight size distribution (
4 kb). The v + i method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgun sequencing projects. In
Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.
Barrell, Oxford University Press, 1999).

Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available
at http://www.sanger.ac.uk/Projects/T_brucei/.
  12;
                                                                                                                                                                                                                                                                                                                 Duke University
072-A Biological Sciences Science Drive, Durham, NC 27708, USA
17el: 919 660 7340
Fax: 919 660 7293
Email: jwillls@duke.edu
Plate: 0089P0056 row: 02 column: D
Seq primer: T7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mimulus guttatus
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Willis J
Department of Biology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Willis, J., Vision, T., Mimulus guttatus cDNA Unpublished (2004)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mimulus guttatus (spotted monkey flower)
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Similarity 85.7%;
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  Conservative
                                                                                            /organism="Mimulus guttatus"
/mol_type="mRNA"
/db_xref="taxon:4155"
/clone="0089P0056Z.x0_D02"
/clone="1ib="Mimulus guttatus library 2"
/note="Vector: pGEM-T Easy; a Mimulus guttatus cDNA
library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Trypanosoma brucei"
/mol type="qenomic DNA"
/strain="TREU927"
/db xref="taxon:5691"
/clone="59h06"
                    72.0%;
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Score 10.8; DB 7;
Pred. No. 1.8e+05;
0; Mismatches 2;
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Pred. No. 1.8e+05;
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                                     Length 43;
  Indels
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Search completed: June 21, 2005, 06:51:11 Job time: 3008 secs

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Copyright (c) 1993 - 2005 Compugen Ltd.
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CG497924 OST38825
AA30605 EST3177032
CG605299 OST281834
CG561765 OST443394
CG561765 OST443394
CG561765 OST451337
CG5464546 OST1451337
CG5464546 OST1451337
CG577036 OST212398
CG591346 OST24531
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CG591346 OST24531
CR395726 170005321
D43526 D43526 Rice
BY329807 BY329807
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BY32433 BY32433
BY068929
BQ375054 MR4-TW011
BY063442 BY063442
CG633123 AMGNNUC: N
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BY314742	CB698634	BY288082	BY279803	BY061467	CG603416	AA017736	BY087978	AU077313	BY047534	BE244097	BY280317	BY071821	BY014670	BY318790	BY063180	CG555213	BY036035	BY304066	BY014540	CG623442
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JOURNAL COMMENT SOURCE ORGANISM VERSION KEYWORDS RESULT 1 CG531606/c LOCUS ORIGIN REFERENCE FEATURES ACCESSION DEFINITION TITLE AUTHORS source Mammalia; Eutheria; Rodentia; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. El (bases 1 to 165) Zambrowicz.B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J., Piggott,J., BeltrandelRio,H., Buxton,E.C., Edwards,J., Finch,R.A., Priddle,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C., Key,B.W. Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D., Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z., Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N., Zhu,Q., Person,C. and Sands,A.T. Whal kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention L. Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003) Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11) Class: Gene Trap. Mus musculus mRNA sequence. CG531606 CG531606.1 GI:37318178 GSS. CG531606 165 bp mRNA linear GSS 01-OCT-2003 OST114549 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST114549, Email: materials@lexgen.com Contact: Zambrowicz BP Mus musculus (house mouse) Lexicon Genetics Incorporated 100.0%; Score 15; DB 9; ilarity 100.0%; Pred. No. 7.3e+02; Conservative 0; Mismatches 0: /organism="Mus musculus" /mol_type="mRNA" /strain="129Sv/Ev" /db_xref="taxon:10090" /clone="0ST114559" /cell_type="embryonic stem cell" /clone_lib="Mus musculus 129Sv/Ev" location/Qualifiers . 165 TX 77381, USA

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1 GTGCTCCATTGATGC 15

Query Match Best Local Similarity

Length 165; Indels

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Gaps

0,

Matches

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RESULT 3
AA306005/c
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E 2ambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J., Piggott,J., BeltrandelRio,H., Buxton,E.C., Edwards,J., Finch,R.A., Priddle,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C., Key,B.W. Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D., Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z., Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N., Zhu,Q., Person,C. and Sands,A.T.

Whkl kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 207)

Adams,M.D., Kerlavage,A.R., Fleischmann,R.D., Fuldner,R.A.,
Bult,C.J., Lee,N.H., Kirkness,E.F., Weinstock,K.G., Gocayne,J.D.,
White,O., Sutton,G., Blake,J.A., Brandon,R.C., Man-Wai,C.,
Clayton,R.A., Cline,T.R., Cotton,M.D., Earle-Hughes,J., Fine,L.D.,
Fitzgerald,L.M., Fitzhugh,W.M., Fritchman,J.L., Geoghagen,N.S.,
                                                                                                                                                                                                                                                                          AA306005 207 bp mRNA linear E
EST177032 Jurkat T-cells VI Homo sapiens cDNA 5' end
proto-oncogene raf, mRNA sequence.
AA306005
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OST38825 Mus musculus 129Sv/Ev Mus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Zambrowicz BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus (house mouse)
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/mol_type="mRNA"
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Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        40 GTGCTCCATTGATGC
Piggott, J., BeltrandelRio, H., Buxton, E.C., Edwards, J., Finch, R.A., Friddle, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C., Key, B.W. Jr., Kipp, P., Kohlhauff, B., Ma, Z.-Q., Markesich, D., Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z., Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N., Shu, Q., Person, C. and Sands, A.T. Winds deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CG605299 229 bp
OST281834 Mus musculus 129Sv/Ev
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For clone availability, additional sequence and expression
information related to this EST, please check the TIGR Human Gene
Index (http://www.tigr.org/tdb/hgi/hgi.html)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Other ESTs: THC192945
Contact: Kerlavage, AR
                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus 1 (bases 1 to 229)
Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richter, L.J.,
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CG605299.1
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Fax: 3018699423
                                                                                                                                                                                                                                                                                                                                                              Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mRNA sequence.
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/mol_type="mRNA"
/db_xref="ATCC (inhost):160136"
/db_xref="taxon:9606"
/cell type="T-lymphocyte"
/clone_lib="Jurkat T-cells VI"
/note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2:
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REFERENCE
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VERSION
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CG661765/c
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Best Local S
Matches 15
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2 ambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richter, L.J., Piggott, J., BeltrandelRio, H., Buxton, B.C., Edwards, J., Finch, R.A., Piddle, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C., Key, B.W. Jr., Kipp, P., Kohlhauff, B., Ma, Z.-O., Markesich, D., Rayne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z., Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N., Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N., Zhu, Q., Person, C. and Sands, A.T.

Whit kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
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  15; Conservative
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OST443394 Mus musculus 129Sv/Ev Mus
                                                                                                                                                                                                                                                                                            Email: materials@lexgen.com
Gene trap sequence tag generated by 3' RACE
described in Zambrowicz et al (Nature. 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                                                                                                                                                                         Class: Gene Trap.
                                                                                                                                                                                                                                                                                                                                                     Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Zambrowicz BP
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4000 Research Forest Drive, The Woodlands, TX 77381, USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                     /db_xref="taxon:10090"
/clone="OST443394"
                                                                                                                                                                            /organism="Mus musculus"
/mol_type="mRNA"
/strain="129Sv/Ev"
                                                                                                                                                                                                                                                       ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /cell_type="embryonic stem cell"
/clone_lib="Mus musculus 129Sv/Ev"
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/clone="OST281834"
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|mol_type="mRNA"
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100.0%; E
tive 0;
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Score 15; DB >, -
Pred. No. 7:7e+02;
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Pred. No.
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. 7.7e+02;
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                                      Length 231;
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    Indels
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CG580338/c
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  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (Dases 1 to 274)

Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,M. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,
                                                                                                                                                                                                                   BF897689 274 bp mRNA linear QV1-MT0224-281100-512-b01 MT0224 Homo sapiens cDNA, BF897689
                                                                                                                                                                                                                                                                                                                                                                               1 GTGCTCCATTGATGC 15
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CG580338.1 GI:37375289
                                                                                                                                          Homo sapiens
                                                                                                                                                          Homo sapiens (human)
                                                                                                                                                                                EST.
                                                                                                                                                                                              BF897689.1
                                                                                                                                                                                                                                                                                                                                                                                                                                  15;
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OST219649 Mus musculus 129Sv/Ev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: materials@lexgen.com
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4000 Research Forest Drive, The Woodlands,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mol_type="mRNA"
/strain="129Sv/Ev"
/db_xref="taxon:10090"
/clone="OST219649"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   organism="Mus musculus"
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                                                                                                                                                                                                GI:12289148
                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 15; DB 9; 100.0%; Pred. No. 7.9e+02;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. E 1 (bases 1 to 253)

E 2ambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J., Piggott,J., BeltrandelRio,H., Buxton,E.C., Edwards,J., Finch,R.A., Priddle,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C., Key,B.W. Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D., Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z., Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N., Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N., Zhu,Q., Person,C. and Sands,A.T.
Whila kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention L Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
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/clone_lib="Mus musculus 129Sv/Ev"
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 253;
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mRNA sequence.
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OST219649,
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JOURNAL COMMENT
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                                         Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richter, L.J., Piggott, J., Beltrandel Rio, H., Buxton, E.C., Edwards, J., Finch, R.A., Friddle, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C., Key, B.W. Jr., Kipp, P., Kohlhauff, B., Ma, Z.-Q., Markesich, D., Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z., Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N., Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N., Zhu, Q., Person, C. and Sands, A.T.

whil kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003) Contact: Zambrowicz BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15;
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Shotgun sequencing of the human transcriptome with ORF expressed
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                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus 1 (bases 1 to 276)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CG664359 276 bp mRNA linear GSS 02-OCT-2003 OST451337 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST451337,
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281100-512-b01&t3=2000-11-28&t4=1)
Seq primer: puc 18 forward
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Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010,
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mus musculus (house mouse)
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Lexicon Genetics Incorporated
                              OmniBank
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/db_xref="taxon:9606"
/dev_stage="Adult"
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What kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
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OST146106 Mus musculus 129Sv/Ev
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4000 Research Forest Drive, The Woodlands, TX 77381,
Email: materials@lexgen.com
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CG546546.1 GI:37333133
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/strain="1295v/Ev"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                                                    /organism="Mus musculus"
/mol_type="mRNA"
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/clone_lib="Mus musculus 129Sv/Ev"
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/mol_type="mRNA"
/strain="129Sv/Ev"
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/clone_lib="Mus musculus 129Sv/E
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Contact: Chin, H
National Institute of Mental Health
National Institute of Mental Health
אמריירייריים (Partaction of Mental Health
                AA332421 294 bp
EST36311 Embryo, 8 week I Homo sap
proto-oncogene raf, mRNA sequence.
AA332421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CDNA Library Preparation: M.B. Soares Lab Clone distribution: Researchers may obtain BMAP cDNA clones from RESEARCH GENETICS. It should be noted that Bento Soares is generating a small number of additional specialized non-redundant arrays of BMAP cDNAs whose availability will be considered under appropriate and limited collaborative arrangements The following repetitive elements were found in this cDNA sequence: 60-91, >GC_rich#Low_complexity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Genome Res. 6 (9), 791-806 (1996) 97044477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 293)
Bonaldo, M.F., Lennon, G. and Soares, M.B.
Normalization and subtraction: two approaches to facilitate gene
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UI-M-CD0-ayj-e-12-0-UI.rl NIH BMAP Ret2 Mus musculus
UI-M-CD0-ayj-e-12-0-UI 5', mRNA sequence.
                                                                                                                                                                                                                                   1 GTGCTCCATTGATGC 15
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Email: mEST@mail.nih.gov
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301 443.9890
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                                                                                                                                                                                                                                                                                                                                                                                   /strain="C57BL/6J"
/db xref="taxon:10090"
/clone="UI-M-CD0-ayj-e-12-0-UI"
/clone="UI-M-CD0-ayj-e-12-0-UI"
/dev stage="1 day"
/lab host="DH10B (Life Technologies)"
/lab host="PH10B (Life Technologies)"
/clone="Vector: pT7T3D-Pac (Pharmacia) with a modified /note="Vector: pT7T3D-Pac (Pharmacia) with a modified /polylinker; Site_1: Not I, Site_2: Eco RI; The NIH_BMAP_Ret2 library is derived from mouse neonatal retina tissue. For a detailed description of the library from which this clone was derived, please visit our web site at brainest.eng.uiowa.edu. The tissue for this library was contributed by Dr. xin-yuan Fu, Yale University School of Medicine"
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Pred. No.
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                                                           sapiens cDNA
                                                                                                                                                                                                                                                                              8.1e+02;
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A 5' end
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end similar to
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VERSION
KEYWORDS
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MEDLINE
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Best Local
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                                                              ORGANISM
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CE 1 (bases 1 to 294)

RES Adams, M.D., Kerlavage, A.R., Fleischmann, R.D., Fuldner, R.A., Bult, C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White, O., Sutton, G., Blake, J.A., Brandon, R.C., Man-Mai, C., Clayton, R.A., Cline, T.R., Cotton, M.D., Earle-Hughes, J., Fine, L.D., Fitzgerald, L.M., Fitzhugh, W.M., Fritchman, J.L., Geoghagen, N.S., Glodek, A., Gnehm, C.L., Hanna, M.C., Hedblom, E., Hinkle, P.S., Jr., Kelley, J.M., Kelley, J.C., Liu, L.-I., Marmaros, S.M., Merrick, J.M., Moreno-Palanques, R.F., McDonald, L.A., Nguyen, D.T., Pelligrino, S.M., Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R., Small, K.V., Spriggs, T.A., Utterback, T.R., Weidman, J.F., Li, Y., Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, E.J., Dimke, D., Feng, D.-F., Ferrie, A., Fischer, C., Hastings, G.A., He, W.W., Hu, J.S., Greene, J.M., Gruber, J., Hudson, P., Kim, A.K., Kozak, D.L., Kunsch, C., Hungjun, J., Li, H., Meissner, P.S., Olsen, H., Raymond, L., Wei, Y.F., Wing, J., Xu, C., Yu, G.L., Ruben, S.M., Dillion, P.J., Fannon, M.R., Rosen, C.A., Haseltine, W.A., Fields, C., Fraser, C.M. and Venter, J.C.

Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence

AL Nature 377 (6547 Suppl), 3-174 (1995)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15;
                                                                                                                CG577036 300 bp mRNA linear GSS 02-OCT-2003 OST212398 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST212398, mRNA sequence.
CG577036 CG577036.1 GI:37367640 GSS.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 GIGCICCATIGATGC 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         For clone availability, additional sequence and expression information related to this EST, please check the TIGR Human Index (http://www.tigr.org/tdb/hgi/hgi/html)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The Institute for Genomic Research 9712 Medical Center Drive, Rockville,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bioinformatics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Kerlavage, AR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Other_ESTs: THC192945
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fax: 3018699423
                                                                                      Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: arkerlav@tigr.org
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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/clone_lib="Embryo, 8 week I"
/note="Organ: Embryo, 8 weeks; Vector: pBluescript SK-;
Site_1: EcoRI; Site_2: XhoI"
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/db_xref="ATCC (inhost):134082"
/db_xref="taxon:9606"
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Pred. No. 8.1e+02;
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RESULT 13
CG591346/c
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Matches
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Wnkl kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
                                                                                                                                                                                                                                                                              Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richter, L.J., Piggott, J., BeltrandelRio, H., Buxton, B.C., Edwards, J., Finch, R.A., Friddle, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C., Key, B.W. Jr., Kipp, P., Kohlhauff, B., Ma, Z.-Q., Markesich, D., Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z., Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N., Shuks, M.J., Person, C., and Sands, A.T.

Wukl kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
                                                                                                     Email: materials@lexgen.com

Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
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OST245811 Mus musculus 129Sv/Ev Mus
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus
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4000 Research Forest Drive, The Woodlands,
                                                                               Class: Gene Trap.
                                                                                                                                                                                 Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands,
                                                                                                                                                                                                                                                                Contact: Zambrowicz BP
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/strain="129Sv/Ev"
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/clone_lib="Mus musculus 129Sv/Ev"
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1. .300
/organism="Mus musculus"
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CG513061.1 GI:37299634
GSS.
 17000532192143 GRN_ES Homo sapiens CN295726
                          CN295726
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                                                                                                                                                                                                                                                                                                                                                                        Email: materials@lexgen.com
                                                                                                                                                                                                                                                                                                                                                                                     Lexicon Genetics Incorporated 4000 Research Forest Drive, T
                                                                                                                                                                                                                                                                                                                                                                                                                  OmniBank
                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Zambrowicz BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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Search completed: June 21, 2005, 03:49:24 Job time : 3110 secs
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278 GTGCTCCATTGATGC 264
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230 Constitution Drive, Menlo Park, CA 94025, USA
Tel: 650 473 8658
Fax: 650 473 7760
Email: rbrandenberger@geron.com
Insert Length: 309 Std Error: 0.00.
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Brandenberger,R., Wei,H., Zhang,S., Lei,S., Murage,J., Figk,G.J., Li,Y., Xu,C., Fang,R., Guegler,K., Rao,M.S., Mandalam,R., Lebkowski,J and Stanton,L.W.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 309)
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EST.
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and H9 (p26) maintained in feeder-free conditions"
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/mol_type="mRNA"
/db_xref="taxon:9606"
/issue_type="embryonic stem cells, cell lines H1, H7, and
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AB077145 Mus muscu
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M15427 Rat G-raf p
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ARILO77.1 GI:12827625 Unknown. Unknown. In (bases 1 to 15) I (bases 1 to 15) Kasid,U., Gokhale,P., Dritschilo,A. and R. Liposomes containing oligonucleotides	1 GTGCTCCATTGATGC 15 1 GTGCTCCATTGATGC 15 1 GTGCTCCATTGATGC 15 2 GTGCTCATTGATGC 15 2 GTGCTCCATTGATGC 15 2 GTGCTCCATTGATGCT 15 2 GTGCTCCATTGATGC 15 2 GTGCTCCATTGATGCT 15 2 GTGCTCCATTGATGCT 15 2 GTGCTCCATTGATGCT 15 2 GTGCTCCATTGATGCT 15 2 GTGCTCCATT	red DNA" 15; DB 6; No. 1.2e+03; matches 0;	Unknown. Unknown. Unclassified. 1 (bases 1 to 15) 1 (bases 1 to 15) Kasid,U., Gokhale,P., Dritschilo,A. and R. Liposomes containing oligonuclectides Patent: US 6126965-A 1 03-OCT-2000; Location/Qualifiers 115 /organism="unknown"	AR110775 15 bp DNA Sequence 1 from patent US 6126965. AR110775 AR110775.1 GI:12827623	5 100.0 93614 9 ALL39294 5 100.0 112234 8 AP006147 ALIGNMENTS
Rahman,A.	linear	Length 15;	Rahman,A.	linear	AP006147
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Semple, S.C., Klimuk, S.K., Harasym, T., Hope, M.J.,
Cullis, P., Scherrer, P. and Debeyer, D.
Charged therapeutic agents encapsulated in lipid
containing four lipid components
Patent: US 6287591-A 15 11-SEP-2001;
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Sequence 1 from Patent WO2004017944.
CQ789712
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                                                                                                                                     Liposomal gemcitabine compositions for Patent: WO.2004017944-A 1 04-MAR-2004;
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                                                                                                                                                             Zhang, J.A. and Ahmad, I.
                                                                                                                                                                                    other sequences; artificial sequences.
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Kasid, U., Gokhale, P., Zhang, C., Driv
Kasid, U. 1posomal delivery system a
Patent: US 6559129-A 1 06-MAY-2003;
Location/Qualifiers
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/mol_type="genomic
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                   Tam,Y.K., Semple,S., Klimuk,S. and Chikh,G. Cancer vaccines and methods of using the same Patent: WO 03094828-A 25 20-NOV-2003;
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                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Methylated immunostimulatory oligonucleotides
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Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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Patent: JP 2002501511-A 15 15-JAN-2002;
INEX PHARMACEUTICALS CORP
PN JP 2002501511-A/15
PD 15-JAN-2002
PF 14-MAY-1998 JP 1998548646
PF 14-MAY-1998 JP 1998548646
PF 15-SEMPCLE, SANDRA K KLIMUK, TROY HARASYM, MICHAEL J HOPE, PI
STEVEN M ANSELL,
PI PIETER CULLIS, PETER SCHERRER, DAN SUITE DEBEYER PC A61K9/00
CC Strandedness: Single;
                                                                                                                                                            JP 2002501511-A/15.

Chlamydia sp.
Chlamydia sp.
Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydia.

1 (bases 1 to 15)
Semple, S.C., Klimuk, S.K., Harasym, T., Hope, M.J., Ansel, S.M.,
Cullis, P., Scherrer, P. and Debeyer, D.S.
High efficiency encapsulation of charged therapeutic agents i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Semple,S., Chikh,G., Hope,M.J. and Tam,Y.K. Pathogen vaccines and methods for using the same Patent: WO 03094829-A 25 20-NOV-2003; Inex Pharmaceuticals Corp. (CA)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                    BD106498.1 GI:23201316
                                                                                                                                                                                                                                                                                                                                                   BD106498 15 bp DNA linear PAT 18-SEP.
High_efficiency encapsulation of charged therapeutic agents in
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AX958145
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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AR216002
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AR073978
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Monia, B.P. and Boggs, R.T.
Antisense oligonucleotide modulation of raf
Patent: US 5952229-A 47 14-SEP-1999;
Location/Qualifiers
                                                                                                                                                            1 (bases 1 to 20)
Monia, B.P.
                                                                                                                                                                                                                               AR216002 2
Sequence 49 from patent US
AR216002
AR216002.1 GI:23314290
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Location/Qualifiers
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100.0%; Pred. No. 1.1e+03;
Mismatches 0;
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AR110776
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Search completed: June 21, Job time : 1681 secs
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AR110776
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Kasid, U., Gokhale, P., Dritschilo, A. and
Liposomes containing oligonucleotides
Patent: US 6126965-A 2 03-OCT-2000;
Location/Qualifiers
                                                       1 GTGCTCCATTGATGC 15
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Kasid, U., Gokhale, P., Zhang, C., Dritschilo, A. and Rahma Cationic liposomal delivery system and therapeutic use Patent: US 6559129-A 2 06-MAY-2003;
                                                                                                                                                                                                                                                                                                   Sequence 2 from patent US AR310686
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(without alignments)
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Aav99435 Antisense
Aaz99661 Human c-r
Aad22797 Human c-r
Acc55817 Oligonucl
Ada24233 Human c-r
Adb97458 Sense (AT
Adb97456 Antisense
Adf82830 Immunosti
Ade90171 Human c-r
Ade39690 Oligonucl
Adf32025 Antisense
Adf42926 Methylate
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Adr88950 Antic-ra
Aat27527 Mouse fand
Aad44760 Mouse and
Aad437535 Mouse and
Aad43751 Mouse and
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ZXZ:	RESULT 1 AAV54043 ID AAV				c 4		o 4															N	N	a N		N	N
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	T 1 043 AAV54043 standard; DNA;			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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		ALIGNMENTS	ADF18639	AAD44819	AAI68698	ABK72300	ABL57050	ABL69999	AAF75126	AAA73552	AAA48654	AAX78137	AAX99340	AAV20439	AAT61894	AAT30085	ADL16251	AAD64080	ADB52556	ADB58074	ADF57946	ADR60510	ACH77604	ACH17231	ABQ97799	ADB97457	ACD42120
			ø	Human	Aai68698 Human c-r						Human	Human		Human		Humar				Adb58074 Toxicity-	Adf57946 Human pol	Adr60510 Cotton cD	Ach77604 Human gen	Ach17231 Human adu	Abq97799 Mouse ES	Adb97457 Oligo use	Acd42120 Antisense

modified_base Human; antisense; c-raf-1; oligodeoxyribonucleotide; ODN/oligo; tumour tissue; cancer; radiation therapy; radiosensitise; antisense; liposome carrier system; ss. 21-MAR-1997; 24-OCT-1997; modified_base Homo sapiens Human antisense c-raf-1 oligodeoxyribonucleotide. 19-MAR-1998; 01-OCT-1998. Kasid U, WO9843095-A1 (GEOU) UNIV GEORGETOWN. Gokhale P, /note= 97US-0041192P. 97US-00957327. 98WO-US005303 /*tag= /note= Location/Qualifiers Dritschilo A, b "C-terminal base is phosphothioated" "N-terminal base is phosphothioated" Rahman

New cationic liposome composition containing raf oligodeoxynucleotide can be used to directly target tumour tissue and is useful in the radiation therapy of cancers.

WPI; 1998-532155/45.

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GTGCTCCATTGATGC 15 GTGCTCCATTGATGC

15

Query Match Best Local S Matches 15

Similarity

100.0%;

Score 15; Pred. No.

DB 2; 0 Other;

Length 15 Indels

15;

Conservative

0

Mismatches

1.1e+02; hes 0;

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Gaps

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Sequence 15 BP; 2 A; 4 C; 4

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Claim

4; Page

21;

25pp;

English

This is the nucleotide sequence of the human antisense c-raf-1 oligodeoxyribonucleotide (ODN/oligo), used in the method of the invention to directly target tumour tissue, and in cancer radiation therapy. The products can be used in a method of radiosensitising tumour tissue by addition of an antisense oligonucleotide of maximum 40 bases containing ODN/oligo. The liposome carrier system directly targets tumour tissue and has the potential for use in the radiation therapy of cancers

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RESULT 2
AAV99435
ID AAV9
XX AAV9
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XX AAT1
XX WO91
FT Mod?
FT Mod?
FT YX I1-1
PR I1-1
XX WPI

               The present sequence represents an antisense oligonucleotide directed against the human c-raf-1 protein kinase gene. The oligonucleotide can have either phosphorothioate or phosphodiester bonds. The oligonucleotide is lipid-encapsulated using the method of the invention. A composition comprising lipid-encapsulated particles of a therapeutic agent, e.g. antisense oligonucleotides, is prepared by mixing at least 2 lipids with buffered aqueous solution of charged therapeutic agent to form an intermediate mixture of lipid-encapsulated particles, and changing the pH of the mixture to neutralise at least some of the external surface
                                                                                                                                                                                                                                                                                                                                                                                                             Composition containing lipid-encapsulated therapeutic e.g. for delivering antisense molecules or ribozymes c
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modified_base
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                                                                                                                                                                                                                                                                                                                            Disclosure; Page 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-045179/04
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                                                                                                                                                                                                                                                                                                                                                                                       associated with
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or treating dise
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human This sequence Example

represents an antisense oligonucleotide protein kinase as its target gene. The

s sequence which oligonucleotide

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Page 57;

99pp; English

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RESULT 3
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           charges on the particles. One lipid has a (de)protonatable group with I such that the lipid is charged at a first pH but neutral at a second pi (particularly near physiological pH) and the buffer maintains this lipid in the charged form (i.e. cationic when the therapeutic agent is anioning in the buffer, or vice versa). The second lipid prevents particle aggregation during formation of the lipid-therapeutic agent particles. The composition is used to introduce therapeutic agent particles. In vivo or in vitro, particularly to treat or prevent diseases associated with aberrant gene expression in mammals, specifically tumours,
                                                                                                                                                                                                                                                                                                                                                                                                        Antisense oligonucleotide; phosphorothioate; inflammatory disease; tumour; gene therapy; aberrant gene expression; treatment; infectious disease; protein kinase C alpha; c-raf-1 protein kinase
                                                                                  WPI; 2000-225058/20.
                                                                                                       Scherrer
                                                                                                                 Klimuk
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ANSELL S M.

CULLIS P R.

MOK W W K.

SCHERRER P.

SEMPLE S C.
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Scherrer P,
tumours. The composition comprises lipid-therapeutic agent particles comprising a lipid portion and a charged therapeutic agent which is encapsulated in the lipid portion. The lipid portion comprises a first lipid component selected from lipids containing a protonatable or deprotonatable (preferably protonatable) group that has a pKa such that the lipid is in charged form at a first pH and in neutral form at a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           used in a method for delivering lipid encapsulated therapeutic agents (i.e antisense oligonucleotides) to mammals. The lipid capsule comprises steric barrier lipids that prevent particle aggregation during lipid nucleic acid formation. The method may be used for the delivery of therapeutic agents to mammalian cells. It is especially suitable for delivering nucleic acid molecules, and in particular antisense molecules which may be administered to down regulate the expression of aberrant genes. The aberrant gene may be ICAM-1, c-my0, ras, raf, erb-B-2, PKC-alpha, IGF-1R, EGFR, VEGF and/or VEG-R-1. The method may be used for the treatment of tumours, inflammatory diseases and/or infectious
                                                                                                                                                 Composition useful for treatment of e.g. tumors con
                                                                                                                                                                                                   WPI;
                                                                                                                                                                                                                                                                                                                                        14-MAY-1998;
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                                                                                           The invention relates to a composition useful for treatment of e.g.
                                                                                                                        Disclosure; Col 15-16; 48pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     second pH. The pKa of lipid component is from 4-11. The first lipid component is further selected such that the charged form is cationic when the therapeutic agent is anionic and vice versa; the second lipid component is selected from lipids that prevent particle aggregation during lipid-therapeutic agent particles formation and which exchange out the lipid particle at a rate greater than PEG-CerC20; third lipid component is a neutral lipid selected from distearcylphosphatidylcholine (DCF), palmitcylolecyl phosphatidylcholine (PDCF), palmitcylolecyl phosphatidylcholine (PDCF), palmitcylolecyl phosphatidylcholine (PDCF), component which is cholesterol. Compositions of the invention are used for treatment or prevention of a disease caused by aberrant expression of a gene preferably ICAM-1 (Intracellular adhesion molecule-1), c-myc, c-myb, ras, raf, erb-B-2, PKC-alpha (phosphokinase C-alpha), IGF-IR (insulin growth factor 1-receptor), bcl-2, EGFR (epidermal growth factor 1 a mammal or by inflammations such as tumour or an infectious component such as tumour or an infectious component which is cholesterol is an antisense oligonucleotide targetted to human c-raf-1 protein kinase gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                        Improved mucosal adjuvant useful in the preparation of vaccine stimulating an immune response comprises a lipid-nucleic acid containing a nucleic acid component encapsulated by a lipid.
                                                                                                                                                                                                             07-NOV-2001; 2001US-0337522P
10-MAY-2002; 2002US-0379343P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lipid nucleic acid; C-Raf-s; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligonucleotide ODN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACC58517
                             Disclosure;
                                                                                                                                                                                                                                                           07-NOV-2002; 2002WO-CA001717
                                                                                                                                                                                                                                                                                           15-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                      WPI; 2003-493235/46.
                                                                                                                                                                                                                                                                                                                          WO2003039595-A2
                                                                                                                                                                                  (INEX-) INEX PHARM CORP
                                                                                                                                                   တ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GIGCICCATIGATGC 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15
                                                                                                                                                   Klimuk S,
                             Page 21; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                       /*tag= a
/mod_base= OTHER
/note= "OTHER= o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LNA; mucosal; vaccine; immunostimulant; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #25 (hC-Raf1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
                                                                                                                                                                                                                                                                                                                                                       "OTHER= optional phosphorothicate nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВP
                                                                                                                                                   N
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 15
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                                                                            formulation
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The present sequence is that of oligodeoxynucleotide ODN #25 (hC-Raf-1)

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RESULT 6
ADA24233
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for human C-Raf-s. It is an example of an ODN that can be used in lipid-nucleic acid (LNA) formulations of the invention comprising a lipid component and a nucleic acid component. The invention is based on the discovery that such LNA formulations associated with a target antigen stimulate enhanced mucosal immune responses, especially IgA production, directed to that target antigen in vivo as compared to the target antigen alone or mixed with free or unencapsulated forms of the ONA. Claimed improved mucosal vaccines comprise an LNA formulation with at least one antigen, the LNA formulation comprising a lipid component that encapsulates the nucleic acid component, with the lipid and nucleic acid components acting synergistically to stimulate antigen-specific IgG production in a mammal
                                                                                                                                                                                                                                                                                                                                                                                                                   Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      therapeutic oligonucleotide; double-stranded RNA; dsRNA; mobile protein; cytostatic; immunosuppressive; virucide; anti-HIV; antibacterial; cardiant; hyperproliferation; cancer; haematological; metastatic;
                                                                                Treating diseases with oligonucleotides or interfering RNA, useful e.g. for cancer or autoimmune diseases, covalently coupled to mobile proteins, in vivo or in vitro.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          autoimmune disease; infection; endocrine; neural; cardiovascular; pulmonary; reproductive system disorder; endocytosis; metabolic process; murine; intracellular adhesion molecule 1; ICAM-1;
                                                    Claim 128; Page 12; 42pp;
                                                                                                                                                                                                                                                                13-FEB-2003; 2003WO-US004323.
                                                                                                                                                                                                                                                                                              21-AUG-2003.
                                                                                                                                                                                                                                                                                                                            WO2003069306-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human c-raf-1 protein kinase antisense oligonucleotide SEQ ID NO:16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15
                                                                                                                                            WPI; 2003-646491/61.
                                                                                                                                                                          Xie D;
                                                                                                                                                                                                        (MEDB-)
                                                                                                                                                                                                                                    13-FEB-2002; 2002US-0356053P.
                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antisense oligonucleotide; phosphorothioate; вв.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADA24233;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
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                                                                                                                                                                                                        MEDBRIDGE INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGCTCCATTGATGC 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 A; 4 C; 4
                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                 /*tag= a
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                         note=
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                                                                                                                                                                                                                                                                                                                                                       "optionally phosphorothicate backbone"
                                                    English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          e.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         T; 0 U;
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The present

invention ng: (a) a t

therapeutic

describes a method

a method for treating oligonucleotide (TON)

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disease by or double-stranded

Chemosensitization

itization of lymphoma or

chemotherapeutic

e.g.

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ADB97458/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  dimyristoyl trimethyl ammonium propane; DMTAP; phosphatidylcholine; PC; cholesterol; cancer; leukaemia; lymphoma; myeloma; carcinoma; sarcoma; combination therapy; pre-cancerous lesion; chemotherapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antisense; ATG-S; raf ODN; chemosensitisation; tumour tissue; chemotherapeutic agent; cationic liposome; cationic lipid; phosphatidylcholine; cholesterol; liposome; dimethyldioctadecyl ammonium bromide; DDAB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sense (ATG-S) raf ODN oligodeoxyribonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADB97458 standard; DNA; 15
                                                                                                  WPI; 2003-689738/65.
                                                                                                                                                             Rahman
                                                                                                                                                                                              Kasid U,
                                                                                                                                                                                                                                                         (GEOU )
                                                                                                                                                                                                                                                                                                                                                                                                                   14-FEB-2003; 2003WO-US004681.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unidentified.
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                                                                                                                                                                                                                                                                                                                                                    15-FEB-2002; 2002US-00075994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO2003070221-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15;
                                                                                                                                                                                                                                                            NEOPHARM INC
                                                                                                                                                                                                                                                                                         UNIV GEORGETOWN
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                                                                                                                                                                                          Gokhale P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
tumor tissue, useful for treating cancer, myeloma, comprises administering a chemotl
                                                                                                                                                                                              Pei
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                                                                                                                                                                                              Mewani
                                                                                                                                                                                              æ,
                                                                                                                                                                                              Ahmad
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 15;
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                                                                                                                                                                                              Drischilo A;
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Example 1; Page 18; 77pp; English

agent and cationic liposomes containing oligonucleotides

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Chemosensitization of tumor tissue, useful for treating leukemia, lymphoma or myeloma, comprises administering agent and cationic liposomes containing oligonucleotides
Example 1; Page 18; 77pp; English
                                                 WPI; 2003-689738/65.
                                                                        Kasid U,
                                                                                                                              14-FEB-2003; 2003WO-US004681.
                                                                                                                                                28-AUG-2003.
                                                                                                                                                               WO2003070221-A1
                                                                                                                                                                                 Unidentified
                                                                 Rahman
                                                                                      (NEOP-) NEOPHARM INC.
                                                                                               (GEOU ) UNIV GEORGETOWN.
                                                                                                               15-FEB-2002; 2002US-00075994
                                                                        Gokhale P,
                                                                        Pei J,
                                                                        Mewani R,
           comprises administering a chemotherapeutic ontaining oligonucleotides.
                                                                        Ahmad I,
                                                                        Drischilo
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Disclosure;

SEQ

ij

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25; 138pp; English

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encapsulated within the liposome. The invention further relates to a composition comprising liposomes consisting essentially of a cationic lipid like dimethyldioctadecyl ammonium bromide (DDAB) or dimyristoyl trimethyl ammonium propane (DMTAP), phosphatidylcholine (PC), tholesterol, and containing the sequence 5'- GTGCTCATTGATGC -3', where only the terminal sequences are phosphorothioated. The method is useful for chemosensitisation of a tumour tissue or cancer, including leukaemia, lymphoma, myeloma, carcinoma or sarcoma. The combination therapy may be used for any stage of cancer ranging from pre-cancerous lesions to cancer of advanced stages. This polynucleotide sequence represents the sense (ATG-S) raf ODN oligodeoxyribonucleotide, a cationic liposome of the
                                                                      chemotherapeutic agent; cationic liposome; cationic lipid; phosphatidylcholine; cholesterol; liposome; dimethyldioctadecyl ammonium bromide; DDAB; dimyristoyl trimethyld ammonium.
dimyristoyl trimethyl ammonium propane; DMTAP; phosphatidylcholine; PC; cholesterol; cancer; leukaemia; lymphoma; myeloma; carcinoma; sarcoma; combination therapy; pre-cancerous lesion; chemotherapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel method for the chemosensitisation of tumour tissue, comprising administering a chemotherapeutic agent and a composition comprising cationic liposomes consisting of cationic lipid, phosphatidylcholine and cholesterol, where oligonucleotide(s) are
                                                                                                                                                                                                                                                                      Antisense (ATG-AS) raf ODN oligodeoxyribonucleotide.
                                                                                                                                                                                                                                                                                                                                                    04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                        ADB97456;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADB97456 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
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Pred. No. 1.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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RESULT 9
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New pathogen vaccine having a lipid-nucleic acid formulation in combination with at least one microbial antigen, useful for stimulatienhanced responses against bacterial, viral and parasitic infections
                                                                                                                                                                                                                                                             10-MAY-2002; 2002US-0379343P
07-NOV-2002; 2002US-00290545
12-MAR-2003; 2003US-0454298P
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                                                                                                        WPI; 2003-903935/82
                                                                                                                                                                                                                                                                                                                                                                                                                                20-NOV-2003.
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                                                                                                                                                                                                             (INEX-) INEX PHARM CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Immunostimulant ODN25, component of lipid-nucleic acid vaccine
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/mod_base= OTHER
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Pred. No. 1.1e+02;
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                                                                                                                                                             XX,
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                            stimulating
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                                                                                                                                                                                                                                                                                                   Semple SC,
Scherrer P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ss; lipid-encapsulated therapeutic agent particle; aberrant gene expression; intercellular adhesion molecule; ICAM-1; c-myc; c-myb; ras; ras; erb-B-2; protein kinase C; PKC-alpha; insulin-like growth factor; IGF-IR; epidermal growth factor receptor; EGFR; vascular endothelial growth factor; VEGF; VEGF-R-1; tumour;
                                                                                                        Preparation of a composition comprising lipid-encapsulated therapeutic agent particles, useful for introducing a nucleic acid into a cell and for treating diseases characterized by aberrant gene expression.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-MAY-1998;
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HARASYM T.
HOPE M J.
ANSELL S M.
CULLIS P.
SCHERRER P.
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Debeyer D;
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98US-00078954.
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100.0%; Pr
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Pred. No.
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thes 0;
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Disclosure; SEQ

ID NO 15;

52pp; English

The present invention describes a cancer vaccine (I), which comprises lipid-nucleic acid (LNA) formulation in combination with at least one tumour-associated antigen that is mixed with or associated with the LN formulation comprising a lipid component having at least one cationic lipid, and a nucleic acid component comprising at least one

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Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a method of preparation of a composition comprising lipid-encappulated therapeutic agent particles. The composition is useful for introducing a nucleic acid into a cell and for treating diseases characterized by aberrant gene expression (especially intercellular adhesion molecule (ICAM)-1, c-myc, c-myb, ras, raf erb-B-2, protein kinase C (PKC)-alpha, insulin-like growth factor (IGP)-IR, epidermal growth factor receptor (EGFR), vascular endothelial growth factor (VEGF) or VEGF-R-1), e.g. tumours, inflammation or infection. The present sequence represents an antisense oligonucletide.
                                                                                                                   New cancer vaccine having a lipid-nucleic acid formulation in combination with at least one tumor-associated antigen, useful for stimulating enhanced responses against tumor-associated antigens and for inhibiting
                                                                                                                                                                                                                                         10-MAY-2002; 2002US-0379343P
07-NOV-2002; 2002US-00290545
04-APR-2003; 2003US-0460646P
                                                                                                                                                                                                                                                                                                                                                                                                modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancer; vaccine; lipid-nucleic acid; LNA; tumour-associated antigen;
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Pred. No. 1.1e+02;
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Best Local
                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to reducing the platelet count in a patic comprises preparing a formulation of an oligonucleotide with an agent that enhances penetration of the oligonucleotide into cells, and administering the formulation to a patient having an elevated platelet count. The oligonucleotide is useful for preparing a medicament for reducing the platelet count in a patient, particularly for treating thrombocytosis. The present sequence represents an oligonucleotide of the present sequence represents an oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immune response in vivo to the at least one tumour-associated antigen. (I) has cytostatic activity, and can be used in vaccines, and in gene therapy. The methods and compositions of the present invention can be used for stimulating enhanced responses against tumour-associated antigens and for inhibiting tumour growth. The present sequence represents an oligonucleotide which is used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Reducing the platelet count in a patient, useful for treating thrombocytosis, comprises administering antisense oligonucleotides inhibiting raf-1 gene with an agent that enhances penetration of the oligonucleotide into cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-DEC-2003
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                                                                                                                                                                                                                                                       Sequence 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense oligonucleotide of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2003099213-A2
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GTGCTCCATTGATGC 15
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ilarity 100.0%;
Conservative 0;
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                                                                                     Conservative
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                                                                                Score 15; DB 12;
Pred. No. 1.1e+02;
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Pred. No. 1.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                    oligonucleotide of the
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an agent
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                                                                                                                                                                                                                                                                                                                                                                        The present invention describes a lipid-methylated nucleic acid CC formulation for stimulating an immune response in an animal, comprising a CI lipid component and a nucleic acid component which is a methylated CC nucleic acid (LNA) formulation; (2) a vaccine comprising a lipid CC -nucleic acid (LNA) formulation; (2) a vaccine comprising the LNA CC formulation in combination with at least one target antigen; (3) cC stimulating an enhanced host immune response to antigenic stimulation, CC comprising administering to the host the LNA formulation; (4) stimulating CC dendritic cells in vivo, comprising contacting at least one CC dendritic cell with the lipid-methylated nucleic acid formulation to a host; and (5) simultaneously delivering antigenic and adjuvant immune CC thrimulation to antigen presenting cells, comprising the administration of CC the LNA formulation associated with a target antigen. The lipid-methylation nucleic acid formulation has immunostimulant, cytostatic, antiinflammatory and antiarthritic activities, and can be used in CC vaccines, and in gene therapy. The formulation and methods are useful in
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                                                                                                                                                                                                                                                                                 stimulating a host's immune response to antigenic stimulation, or activating and/or expanding dendritic cell populations in response antigenic stimulation. They may be used for treating cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lipid-methylated nucleic acid formulation for stimulating an response in an animal comprises a lipid component and a nucle component comprising a methylated nucleic acid sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-MAY-2002; 2002US-0379343P
07-NOV-2002; 2002US-00290545
04-APR-2003; 2003US-0460646P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 response in an animal comprises component comprising a methylate
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arthritis; immunodeficiency disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        lipid-methylated nucleic acid formulation; immune response;
lipid-nucleic acid; vaccine; immunostimulant; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADF42926 standard; DNA; 15
                                                                                                                              Sequence
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                                                                                                                                                                                    inflammation, arthritis or immunodeficiency disorders. sequence represents a methylated immunostimulatory oli in the exemplification of the present invention.
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                                                                                                                              2 A;
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   Score 15; DB 12;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is that of an antisense oligonucleotide to raf. The invention relates to novel gemcitabine compositions and their use in treating proliferative diseases such as cancer, particularly in mammals, especially in humans. The compositions include liposome-entrapped gemcitabine. The cancer is especially lymphoma, ovarian cancer, breast cancer, pancreatic cancer, lung cancer or colon cancer. The liposomal gemcitabine compositions can be used in conjunction with secondary therapeutic agents including antineoplastic, antifungal and antibiotic agents as well as antisense oligonucleotides, especially an antisense oligonucleotide to raf (claimed).
                                                                                                                                     C-raf-1; liposomal; antineoplastic; cytostatic; cancer; antisense; ss.
                                                                                                                                                                                                                                                                   18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 1; 25pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Treatment of cellular proliferative disease e.g. cancer involves administration of a composition comprising liposomal gemcitabine and negatively charged phospholipid.
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                WO2004071466-A2
                                                                                                                                                                                               Anti c-raf-1 oligonucleotide
                                                                                                                                                                                                                                                                                                                              ADR88950;
                                                                                                                                                                                                                                                                                                                                                                                        ADR88950 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTGCTCCATTGATGC
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                                                                                                                                                                                      The invention relates to the preparation of a liposomal composition. The combod involves: dissolving a lipid fraction in a water-miscible organic solvent; and mixing the water-miscible organic solvent solution comprising the lipid fraction with an aqueous solution under conditions to form a bulk liposomal composition. The method further involves adding the least one active principal to the water-miscible organic solvent prior to the addition of the lipid fraction, or to the aqueous solution prior, composition to obtain a size-reduced liposomal composition, freeing the liposomal composition of the water-miscible organic solvent by composition, sterile-filtering the liposomal composition and freeze-drying the liposomal composition and freeze-drying the liposomal composition and freeze-drying companic solvent solution to the aqueous solution while mixing and mixing of solution following addition of water-miscible solvent comprises at least one antineoplastic or antifungal agent composition to the aqueous solution while solvent comprising the composition and freeze-drying composition following addition of water-miscible solvent comprising the composition while cooling. The active consolution following addition of water-miscible solvent comprising the conjudicate or antifungal agent conjudicate or antifungal agent conjudicate the effects of the disease, conjudicate the effects of the disease or its symptoms, need not completely eradicate the effects of the disease or the symptoms, need not composition eliminates the disease or its conjudicate the effects of the disease, of the disease, or its conjudicate the effects of the disease, of the composition of hiposomal formulation on a commercial scale. The present conjudence represents an antisense oligonucleotide specific for c-raf-1, that can be used as an active principal.
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Matches
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